

THE  
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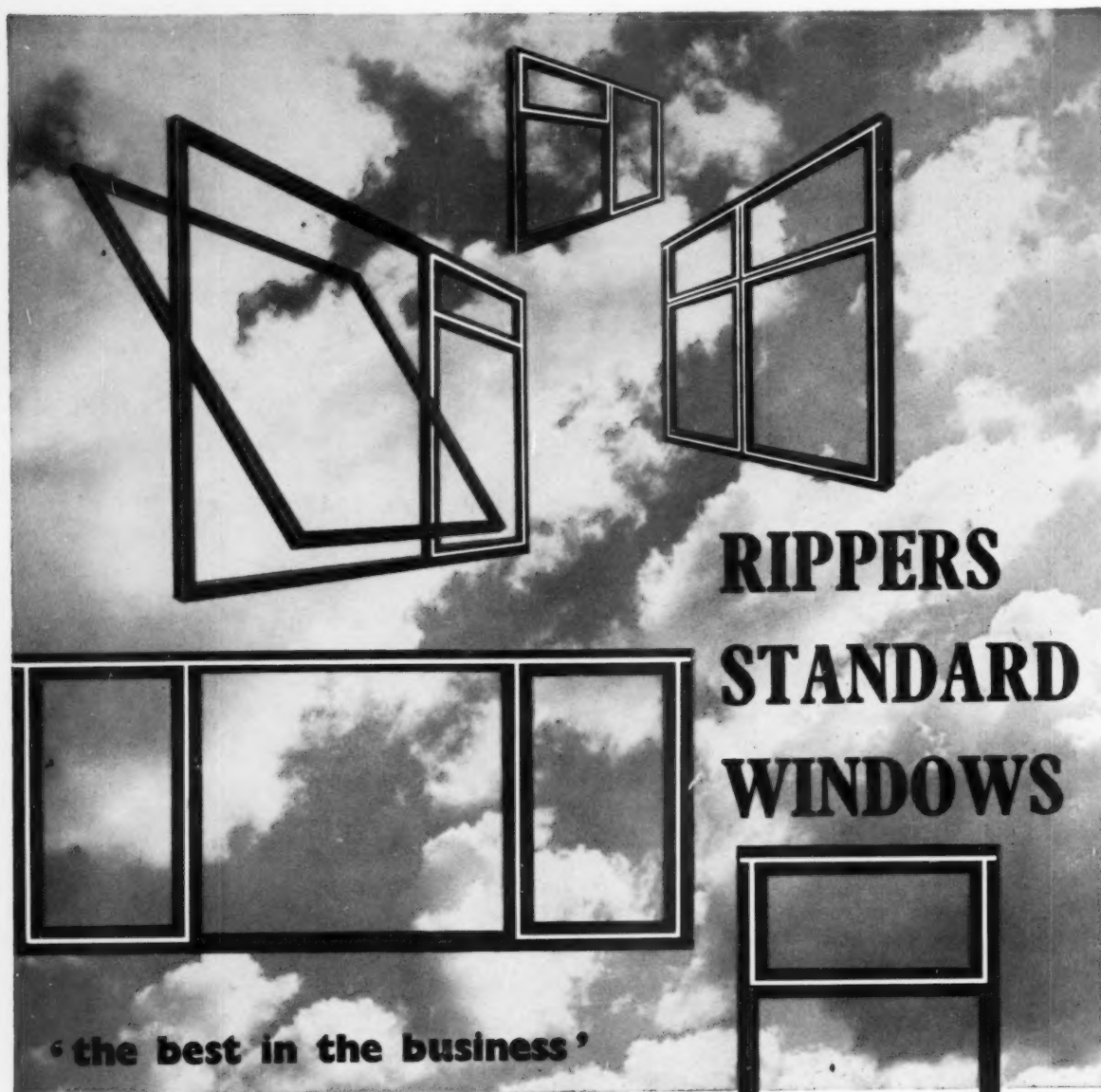
NO. 17

ONE SHILLING WEEKLY

• HEINZ FACTORY, WIGAN

• TWO CHURCHES

PUBLISHED IN LONDON SINCE 1854



**RIPPERS  
STANDARD  
WINDOWS**

**'the best in the business'**

**'you'll be glad  
you chose  
WOOD windows'**

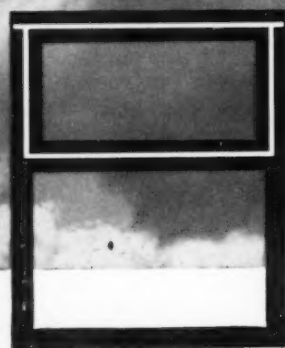
**RIPPER  
WOODWORK**

When you order windows, external door frames, internal door frames or kitchen units, make sure you buy Rippers—the finest standard joinery obtainable. Over sixty years experience is behind Rippers quality—

Write today for our free Catalogue: it describes over three hundred designs from which endless window combinations can be arranged, and includes descriptions of all our products. Apply for your free catalogue to Dept. 29/4.

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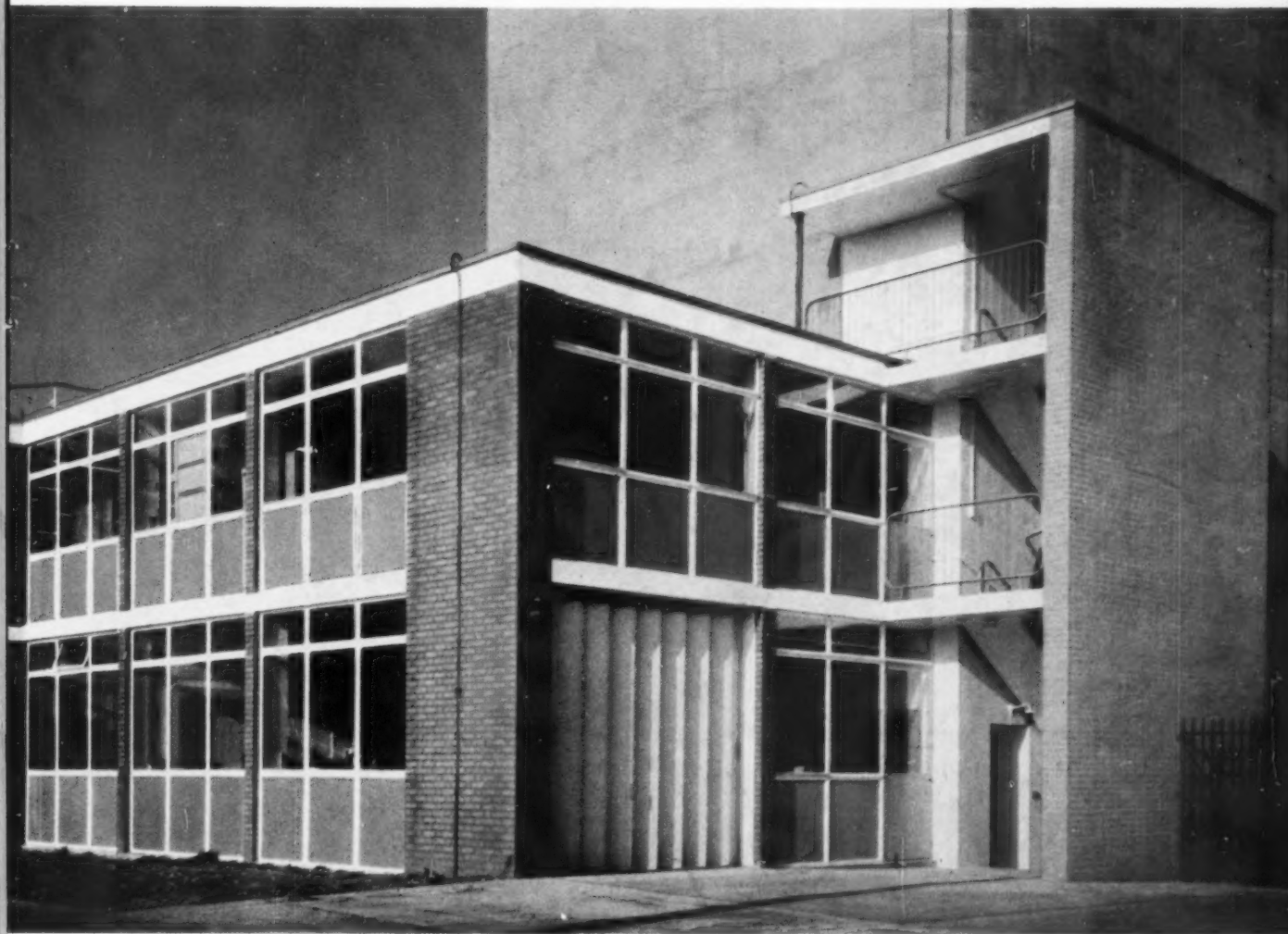


**RIPPERS  
STANDARD  
KITCHEN  
UNITS**





# Glass Cladding today...



Atomic Energy Establishment, Aldermaston. Laboratory and Offices.  
Designed by the Chief Architect's Division, Ministry of Works, London.  
Senior Architect: K. H. Choate, A.R.I.B.A. 'MUROGLASS'.

Golden Lane Flats, London, E.C.1. Architects:  
Chamberlin, Powell & Bon, A/R.I.B.A.  
London, S.W.3. 'MUROGLASS'.

Architects and builders everywhere recognise glass cladding as the ideal material for providing modern buildings with permanent, colourful protection. There is a wide range of glasses manufactured by Pilkington Brothers Limited which can be used for cladding, and these include 'MUROGLASS', 'ARMOURCLAD', 'VITROLITE', Georgian Wired Cast and Rough Cast Glass. Both 'MUROGLASS' and 'ARMOURCLAD' have been specially designed to meet the demand for coloured cladding materials. Both have ceramic colour fused into one face—the former being a Rough Cast annealed glass and the latter, a toughened glass, available with a textured or a polished surface. Both are guaranteed for five years. 'MUROGLASS', 'ARMOURCLAD' and 'VITROLITE' are available in a wide range of attractive colours.

For further information, including glazing recommendations, on glass cladding and any other Pilkington product, please write to the Technical Sales and Service Department:

## PILKINGTON BROTHERS LIMITED



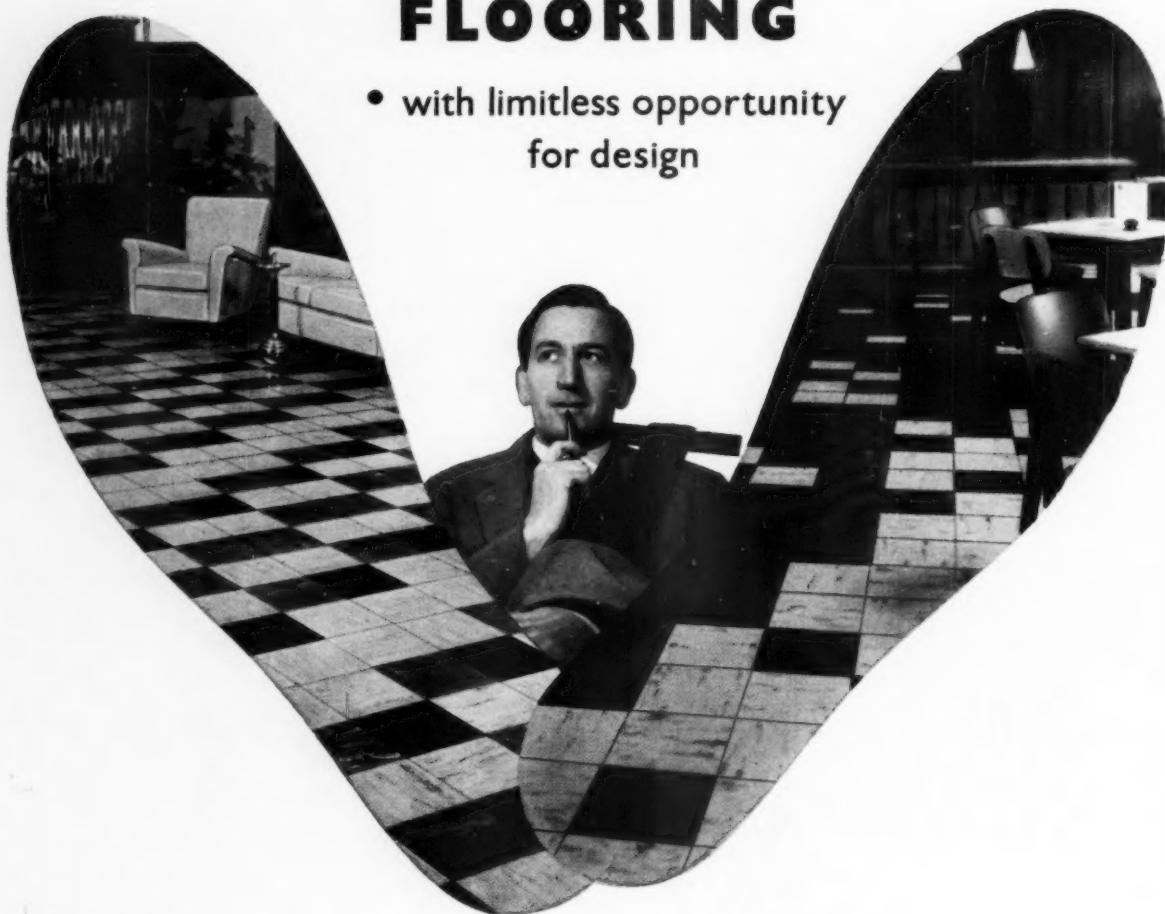
ST. HELENS, LANCs. TEL: ST. HELENS 4001 OR SELWYN HOUSE,  
CLEVELAND ROW, ST. JAMES'S, S.W.1. TEL: WHITEHALL 5672-6

'ARMOURCLAD' and 'VITROLITE' are the registered trade marks  
of Pilkington Brothers Limited. Supplies are available  
through the usual trade channels



# modern FLOORING

- with limitless opportunity  
for design



AMONG those concerned with flooring problems many have come to the conclusion that "Semastic" or "Vinylex" tiles are the most practical and economical solution to covering sub-floors in industrial or commercial premises, in public buildings, and often in private homes, whether over new floors or to make old floors like new.

Tiles by Semtex provide ample opportunity for attractive designs, as the examples here show. They are quick to lay and immediately ready for use. This apart from other "user" considerations, such as the economy of longer wear; easy cleaning and maintenance; quiet, comfortable walking surfaces.

SEMTEX, with over 25 branches, provides a complete laying service throughout the United Kingdom, including technical and design advice. There are also independent approved laying facilities in the majority of the principal towns. For full information write or telephone to the address below.

**Semastic** Decorative and **Vinylex** Floor Tiles  
are among the range produced by

## Semtex

• THE COMPREHENSIVE FLOORING SERVICE

SEMTEX LTD. A Dunlop Company, 19/20 BERNERS STREET, LONDON, W.1. Tel. LAngham 0401

### BOTH PRACTICAL AND DECORATIVE...

The examples above show that Semtex flooring has been accepted as the most practical and decorative solution to flooring problems, (left): Semastic Decorative Tiles at Lederle Laboratories Division, Cyanamid of Great Britain Ltd., (right): Vinylex Tiles in a reception hall in Germany.

## Extending the range of simplification

The Dorman Long Universal Beam Mill is rolling beams having several times the load-carrying capacity of any previously rolled in this country: these are suitable for bridge spans or heavily loaded buildings without the need for additional flange reinforcement.

A great deal of plating and compounding of girders is thereby eliminated.

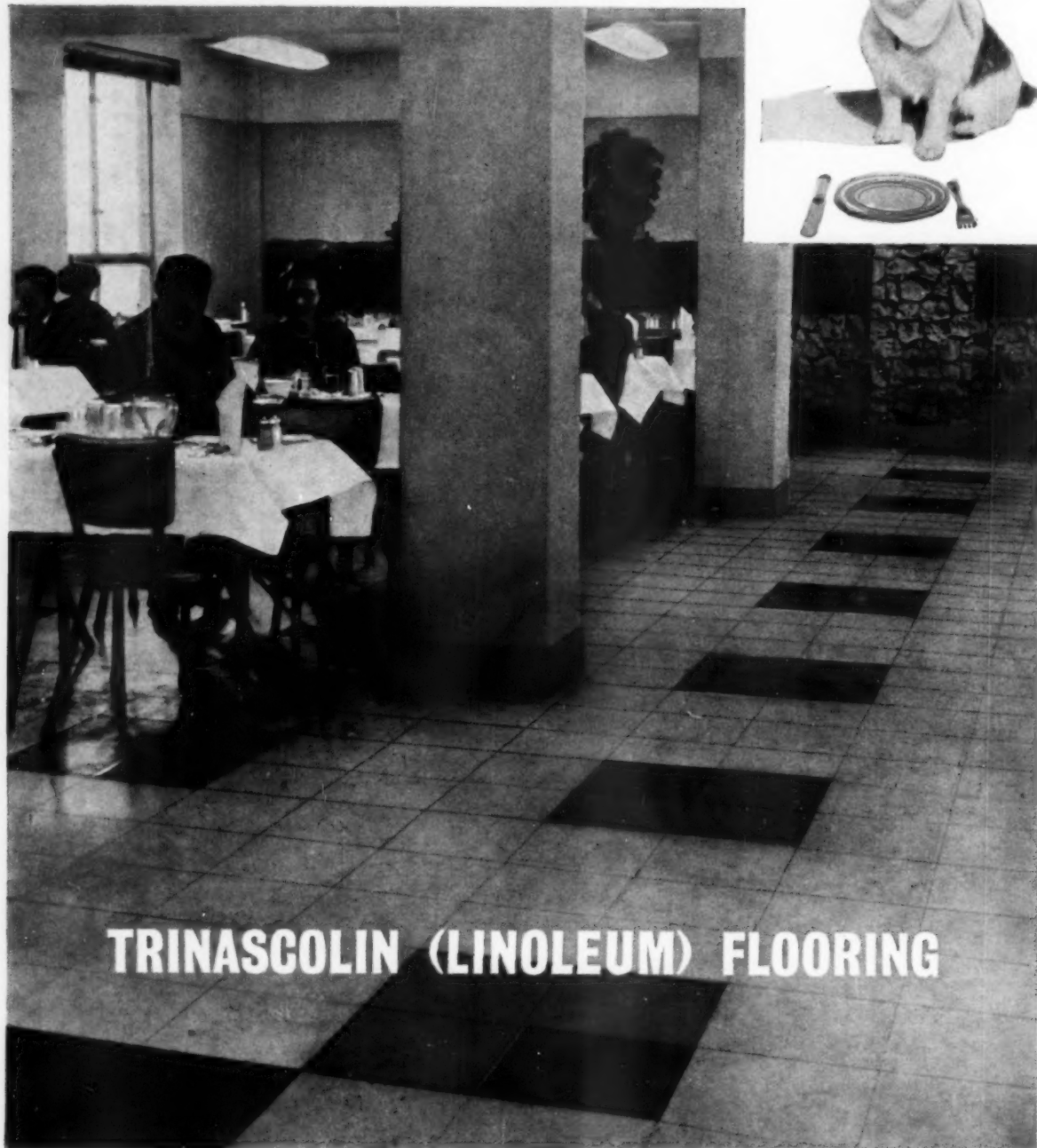
The range of simplification is still further extended by the availability of heavy Tee-sections cut from the large universal beams. Two such Tees, with a web-plate welded in, provide a deep plate girder of great load capacity.

The yellow section shows this construction; in red is the 36" by 16½" universal beam, in blue the 24" by 12", previously the largest rolled in this country, now available in three weights, and in grey is shown the largest of the B.S. sections, 24" by 7½". By way of contrast the little white section is the B.S. 3" by 1½", the smallest I section rolled by us.

EARLY DELIVERY OF THE FULL RANGE OF SECTIONS

# DORMAN LONG

## YOU COULD EAT OFF THE FLOOR



## TRINASCOLIN (LINOLEUM) FLOORING

Here is another example of TRINASCOLIN Linoleum Flooring, laid by craftsmen of the Limmer & Trinidad Group of Companies, who are specialists in all types of Decorative and Industrial Surfaces. Descriptive leaflets are available.

Staff Restaurant, Decca House, Albert Embankment, S.E. Reproduction by Courtesy of Decca Record Co. Ltd.

**THE LIMMER & TRINIDAD LAKE ASPHALT CO. LTD.,**  
Trinidad Lake House, 232-242, Vauxhall Bridge Road, London, S.W.1.  
Telephone: TATe Gallery 4388

**THE WESTERN TRINIDAD LAKE ASPHALT CO. LTD.,**  
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**THE TRINIDAD LAKE ASPHALT CO. (NORTH WESTERN) LTD.,**  
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LIMMER & TRINIDAD GROUP OF COMPANIES**



# 'ISM

*Impressionism*

*Cubism*

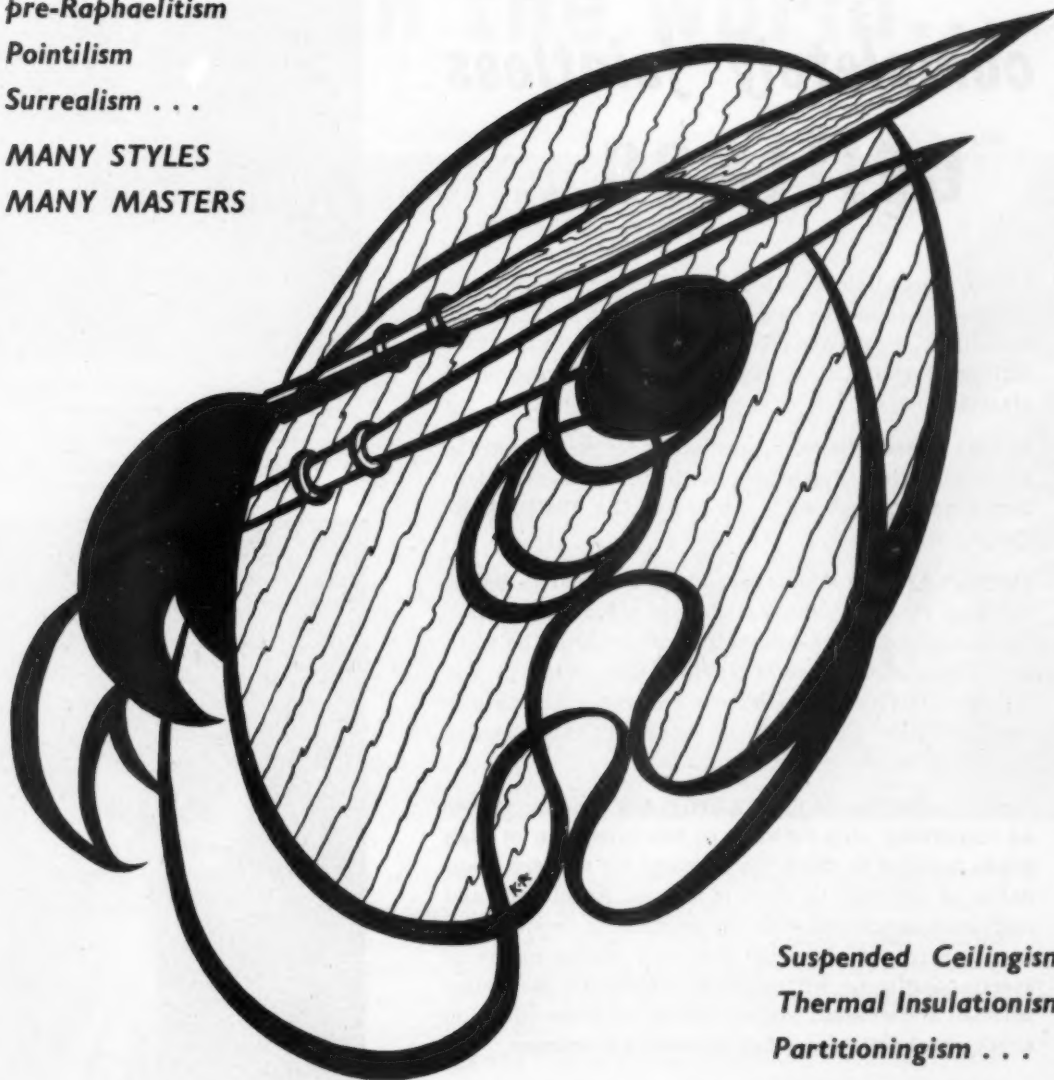
*pre-Raphaelitism*

*Pointilism*

*Surrealism . . .*

**MANY STYLES**

**MANY MASTERS**



*Suspended Ceilingism*

*Thermal Insulationism*

*Partitioningism . . .*

**MANY STYLES**

**ONE MASTER . . .**

**ANDERSON CONSTRUCTION COMPANY LIMITED**

Clifton House • Euston Road • London N.W.1. • EUS 7465

# 30,000 sq. yds. OF WASHABLE *completely jointless* CEILINGS...

To avoid breeding areas for bacteria, rigorous hygienic requirements on the new Heinz food factory at Wigan necessitated *complete elimination of joints* in the vast ceiling areas of Asbestolux panelling and Vermiculite plaster.

EXPORT PACKING SERVICE, specialists for many years in the application of sprayed plastic films, executed this important project with the aid of the **TRETOPLAST** system of coatings.

**TRETOPLAST** is a P.V.C. based film applied as a heavy solution by spray, drying to form a *flexible and continuous skin* of a pre-determined thickness. The flexibility and strength of skin is sufficient to permit flexing of the insulation-boards over these vast ceiling areas and also, to an appreciable extent, takes care of structural movement or cracking.

This application of the **TRETOPLAST** system marks an important step forward in the provision of high grade finishes to meet the demand for modern standards of hygiene in food factories. Architects and engineers concerned with the problem of vapour sealing, control of airborne dust and maintenance of sterile conditions, will find this technique of particular interest and we shall be glad to send you a specification sheet which fully describes its many advantages.

## JOINTLESS SPRAYED CEILINGS

*developed in association with Tretol Limited, by  
The Spraying Division*

## EXPORT PACKING SERVICE LIMITED

IMPERIAL BUILDINGS, 56 KINGSWAY, LONDON, W.C.2. Telephone: Chancery 5121/3



View showing sequence of coatings being applied to Vermiculite ceiling.

Tretoplast coating being spray-applied to a prepared area of ceiling



# The largest jointless ceilings in the world...

PART OF THE NEW H. J. HEINZ CO. LTD., FACTORY AT WIGAN. Architects: J. Douglass Mathews & Partners



THE COMPLETE ELIMINATION OF JOINTS has been achieved on 30,000 yards super ceiling areas of this new Heinz food factory by means of the **TRETOPLAST** system, which is applied in situ by spray, providing a thick, plastic skin to any type of building surface. **TRETOPLAST** bridges the gaps that occur at junctions between insulation and plasterboard and completely film-forms over brickwork and concrete. It eliminates any cracks or fissures which may provide focal points for mould growth or collection of dust.

**TRETOPLAST** is suitable for walls and ceilings and it is available in colours, including White. The coating is flexible, waterproof, can easily be cleaned by means of hosing down or detergent washes and has excellent resistance to steam, acids and alkalis. A further important advantage of this positive vapour-proofing technique is the greatly improved insulation.

*We shall be glad to send you further information on the **TRETOPLAST** system of jointless coatings.*

## **TRETOPLAST Jointless Coating SYSTEM**

Manufactured by TRETOL LTD., THE HYDE, LONDON, N.W.9. Telephone: Colindale 7223.

EVERYBODY KNOWS A STELRAD!

**What  
a  
Corker!**



In the building programme of New Zealand, Stelrad radiators are

prominently featured. They have been specified for many different buildings, and include both wall and column types. The Stelrad range covers

every building need from angled wall radiators to column radiators curved for bay window fixing.

The dimensions and heat emissions of each type and size are clearly set out in our catalogue to assist you in your calculations. May we send you the latest edition?



**STEEL RADIATORS  
LIMITED**

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# ANOTHER SCHOOL COMPLETED ON TIME

Phase 1 of Fairham Comprehensive School, Nottingham (94,000 sq.ft.) was completed within the agreed contract programme.

Abnormal site conditions were met and overcome.

Phase 2 was completed six weeks ahead of programme.

Over the past five years twenty school's Authorities have commissioned more than fifty INTERGRID\* projects. Whenever fine buildings are needed quickly it *always* pays to use . . .

## The New **INTERGRID** SYSTEM OF CONSTRUCTION By **GILBERT-ASH** LTD.

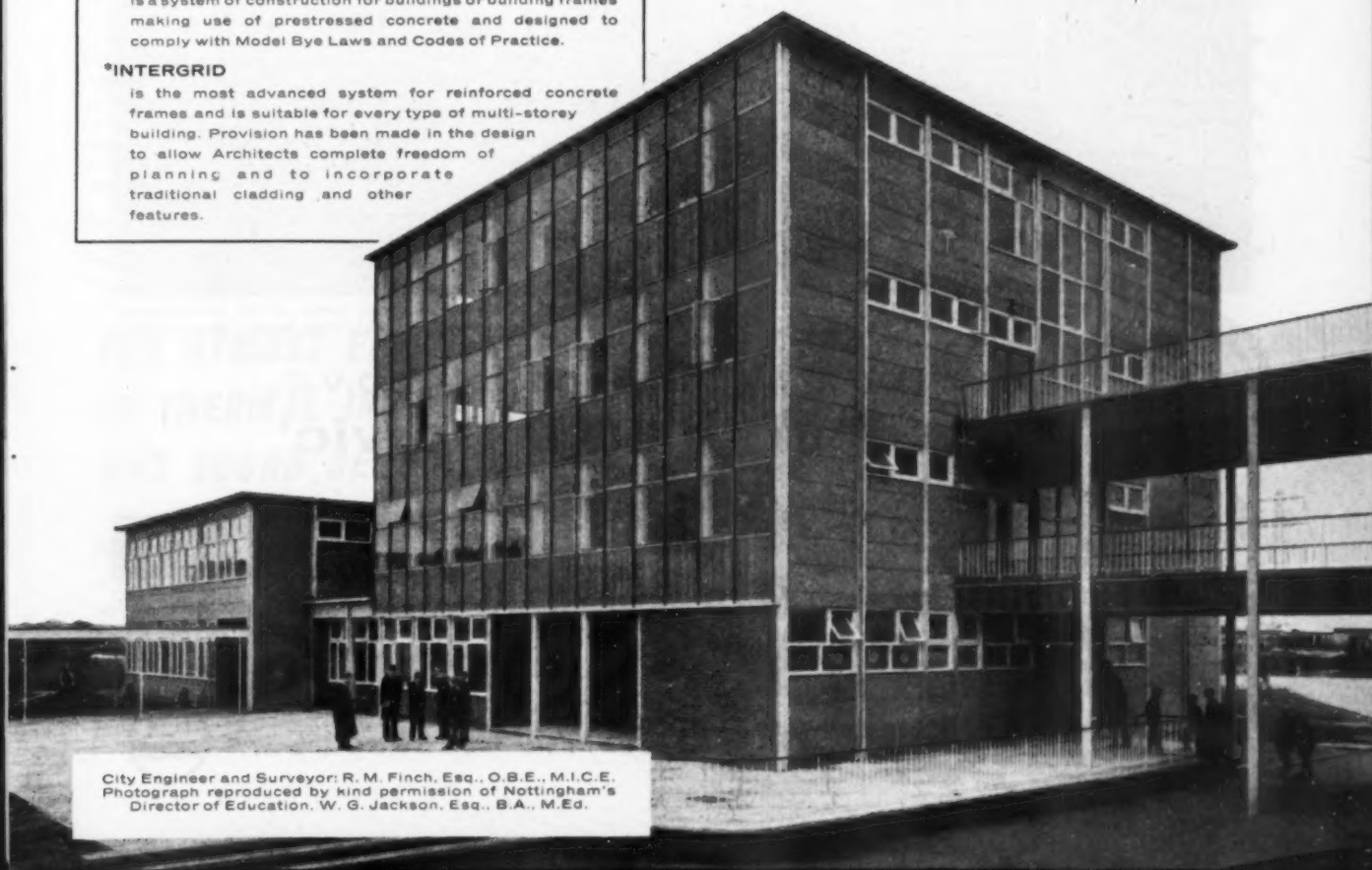
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### \*INTERGRID

is a system of construction for buildings or building frames making use of prestressed concrete and designed to comply with Model Bye Laws and Codes of Practice.

### \*INTERGRID

is the most advanced system for reinforced concrete frames and is suitable for every type of multi-storey building. Provision has been made in the design to allow Architects complete freedom of planning and to incorporate traditional cladding and other features.



City Engineer and Surveyor: R. M. Finch, Esq., O.B.E., M.I.C.E.  
Photograph reproduced by kind permission of Nottingham's  
Director of Education, W. G. Jackson, Esq., B.A., M.Ed.



*'Crestaline' flooring made from 'Corvic' by Jas. Williamson and Son Ltd., Lancaster, at the Hobs Moat Branch Library, Solihull.*

## When you make flooring from p.v.c. make it from I.C.I. 'Corvic'

ONE REASON why leading manufacturers use 'Corvic' p.v.c. polymers is the I.C.I. research and technical service available to them. If you are considering the use of p.v.c. have a word with I.C.I. They will be glad to help you.

An increasingly important use of 'Corvic' is in the manufacture of flooring. The illustration shows 'Crestaline'

flooring made from I.C.I. 'Corvic' by Jas. Williamson and Son Ltd., in the Hobs Moat Branch Library, Solihull. The building was designed by C. R. Hutchinson, B.Sc., A.M.I.C.E., M.I.Mun.E., Borough Surveyor and Engineer. The flooring contractors were Korkoid Decorative Floors, Birmingham.

**'CORVIC'**

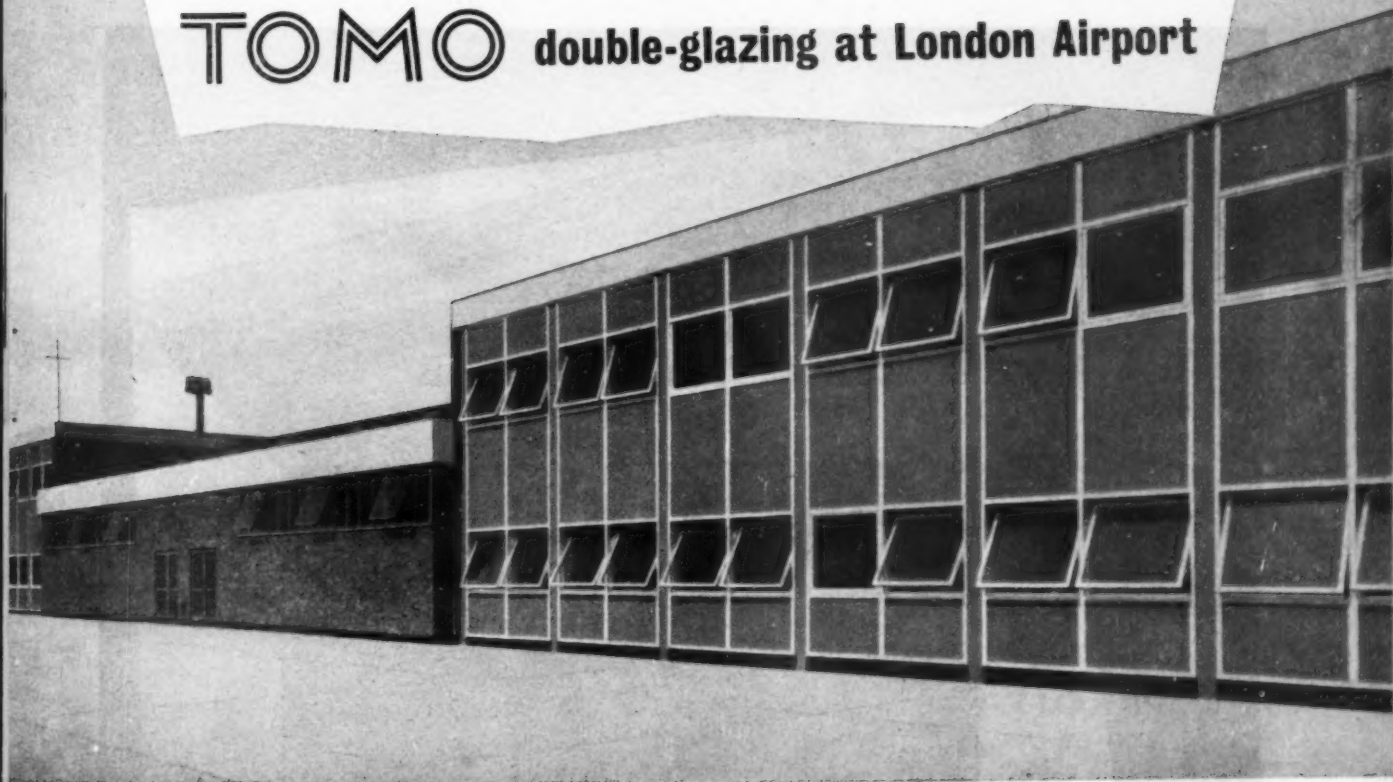
*'Corvic' is the registered trade mark for  
the p.v.c. polymers  
manufactured by I.C.I.*

IMPERIAL CHEMICAL INDUSTRIES LIMITED · LONDON · S.W.1

PC.12



# TOMO double-glazing at London Airport



We think you'll agree that the appearance of these attractive offices at London Airport is enhanced by their TOMO double-glazed WINDOWS. But that's only a small part of the story. TOMO double-glazing also offers excellent thermal-efficiency values, remarkable sound-reduction properties, finely-controlled ventilation and total indoor window-cleaning.

On the subject of thermal efficiency, we should like to refer you to the report of a recent B.R.S. test quoted on the right. It speaks volumes. When you work within whistling distance of aircraft, sound reduction becomes a matter of vital importance. Here TOMO WINDOWS score heavily. The total reduction in sound level depends finally, of course, on the thickness of glass employed and the space between panes. Using 32-ounce glass spaced at  $1\frac{1}{2}$  in, TOMO double-glazing gives a reduction of approximately 40 decibels and will, we hope, save Shell-Mex and Esso personnel not a few headaches in the future.

One last point, TOMO double-glazed WINDOWS are suitable for inward or outward opening and can be top-hung, bottom-hung, side-hung or pivot-hung. Any further information you may require will be gladly supplied.

Administrative and operations offices for aviation fuel supplies at London Airport, half of which are occupied by Shell-Mex & B.P. Ltd. and the other by Esso Petroleum Co. Ltd. Architect: Frederick Gibberd, C.B.E., F.R.I.B.A., M.T.P.I.

★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★  
**BUILDING RESEARCH STATION TESTS** ★ ★  
 ★ When a standard-production TOMO WINDOW Wall-Unit (8ft. x 8ft.) ★  
 ★ was tested at the Building Research Station, Garston, the mean ★  
 ★ thermal transmittance of the complete unit was found to be 0.31 ★  
 ★ B.Th.U./sq. ft./h/°F. This is equal to the thermal transmittance ★  
 ★ of a traditional 11-in. cavity brick wall! This impressive result ★  
 ★ was further improved to 0.29 when the TOMO pleated blinds, ★  
 ★ fitted between the panes, were lowered. The U-value of the window- ★  
 ★ area only was found to be 0.38 which, with TOMO pleated blinds ★  
 ★ down, became 0.35. At 0.38, TOMO double-glazed WINDOWS ★  
 ★ are substantially (29%) better than the U-value of 0.47 quoted for ★  
 ★ conventional double windows in the I.H.V.E. Guide to Current ★  
 ★ Practice, 1955. ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★

**FOR UTMOST EFFICIENCY  
 IN THERMAL INSULATION  
 AND SOUND REDUCTION—**

**SPECIFY**

**TOMO**  
**DOUBLE GLAZED**  
**WINDOWS**

**NEW !**

A Stock-size TOMO double-glazed 'Picture' Window, horizontal-pivot hung, to the BSS644 overall size 5' 11½" wide x 4' 0½" high. Made from best quality softwood, ready-primed; £25 net ex-works.

— NOW AVAILABLE FROM STOCK !

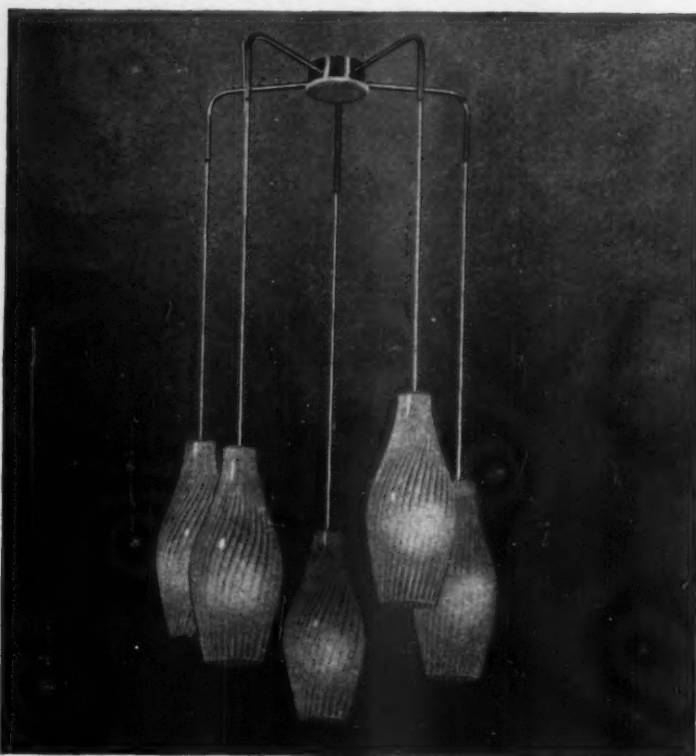
**TOMO TRADING CO. LTD., Cowley Peachey, Uxbridge, Middx.**

Telephone : West Drayton 3751 (10 lines)

**—purpose-made in finest timbers  
 to Architect's size, style and finish**



A **G.E.C.** FITTING  
IS ALWAYS DISTINCTIVE

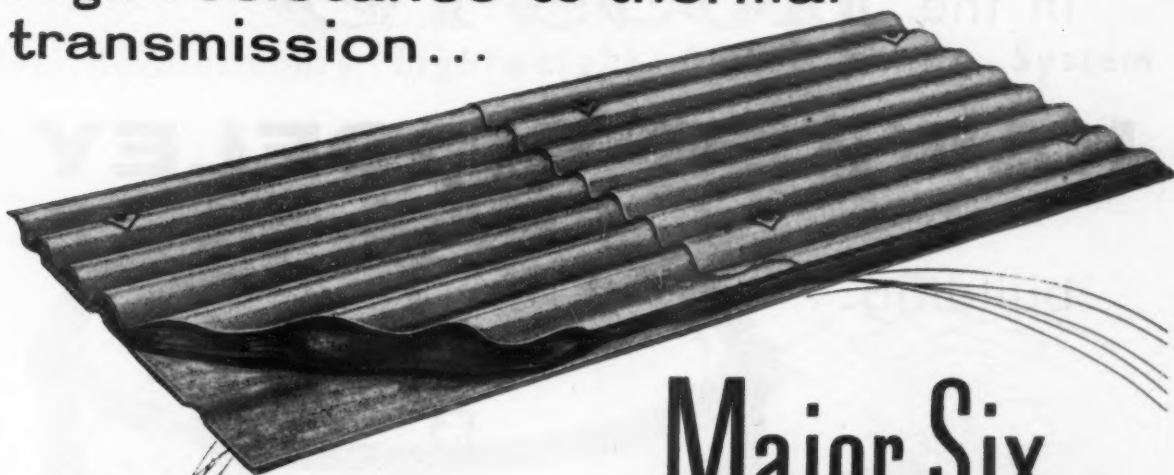


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Artistry in design is cleverly combined with high technical efficiency and sound construction, providing fittings that please the eye and offer high lighting values.

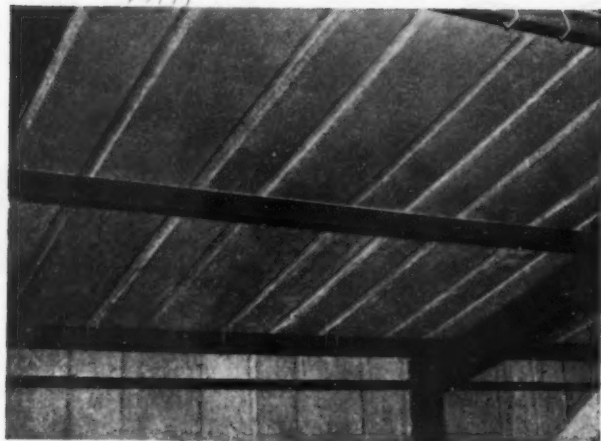


# High resistance to thermal transmission...



## Major Six

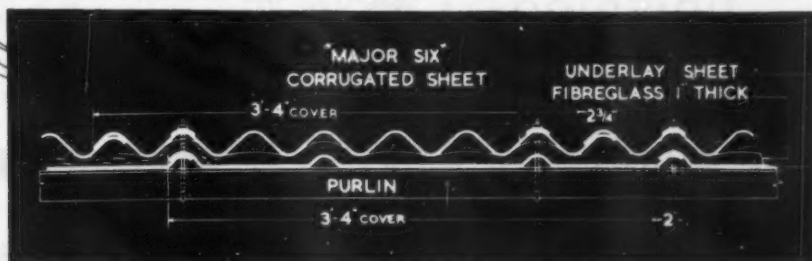
### DOUBLE CLADDING INSULATION



Photograph above illustrates interior view of roof

"Major six" DOUBLE cladding insulation provides a high resistance to thermal transmission, contributing to higher equable interior temperature and consequent economical heating. Here is dependable roofing made for quick erection and permanent service.

It's the DOUBLE cladding that does it!—a rigid asbestos-cement underlining sheet laid directly to purlins as a soffit upon which the sheet of insulation is laid before putting the "Major six" sheet in position.



*Easily fixed with hook bolts and washers. "Major six" Double Cladding Insulation complies with the requirements of "Thermal Insulation Industrial Buildings" Bill.*



**ARTILLERY HOUSE • ARTILLERY ROW • LONDON SW1**

Telephone: ABBey 3081.

Telegrams: "Atlastonco, Sowest"

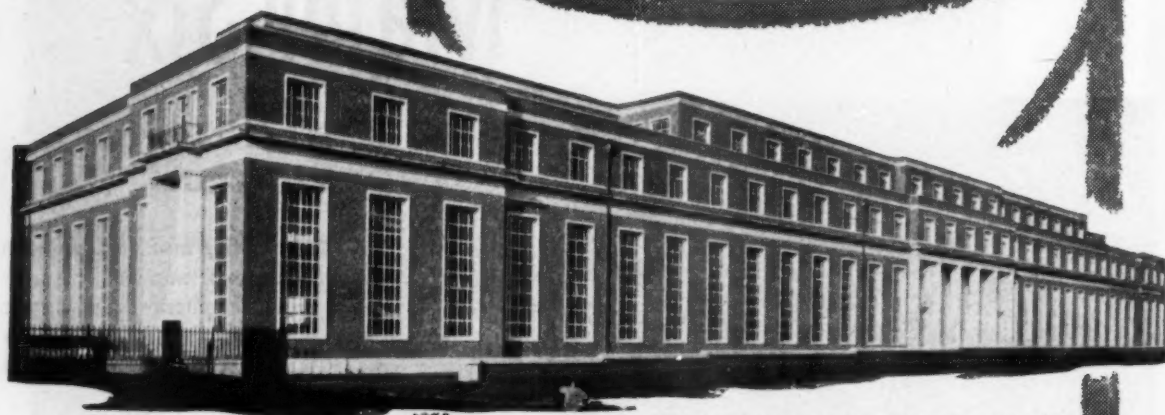
Works at: MELDRETH, Nr. Royston, Herts.

Also at: GREENHITHE • STROOD • CAMBRIDGE • SHORNE • RYE (Sussex) • GT. YARMOUTH

In the

# HAWKER-SIDDELEY

building...



*Consultant Architect: Sir Hubert Worthington, R.A.  
Executive Architects & Consulting Engineers: Norman and Dawbarn*

... the

finishing

touch

Fine buildings deserve fine finishes; therefore the Hawker-Siddeley Group chose Cerrux finishes for both the interior and the exterior paintwork of their new administrative building at Kingston-upon-Thames.

is ...

# CERRUX

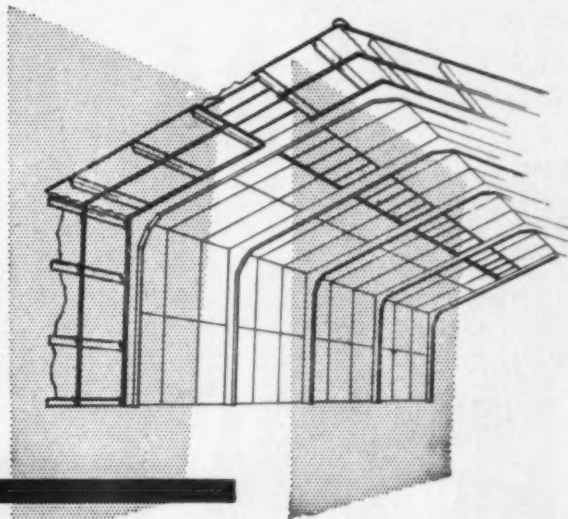
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CELLON LIMITED · KINGSTON-ON-THAMES · TELEPHONE: KINGSTON 1234 (9 lines)

CVS-921

# “Grecon”

the Revolutionary Lightweight Metal Fixing System

for  
Lightweight  
Insulation Panels



**EXPANDED RUBBER CO. LTD**  
recommend

“**Grecon**”

as the **LIGHTWEIGHT  
METAL FIXING SYSTEM**

for use with  
**POLYZOTE**

GRECON is in line with the Code of Design Practice for Metal Fixing Systems for Insulating Materials.

Ask your nearest Builders' Merchant for full details or write to :

**Grecon**

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*GRECON is fast becoming established as the insulation fixing system. The reasons are not far to seek. Here are some of them:*

## **IT'S DOWN-TO-EARTH**

It can be fitted to *any* type of building in *any* plane—without special help, without special tools, without special equipment, and is readily adapted to cope with structural peculiarities.

## **ITS PRICE IS RIGHT**

(as far as any price can be said to be right!) It's the first, low-cost system on the market. What's more, it reduces panel waste to a minimum.

## **IT'S DOWNRIGHT SENSIBLE**

You can remove the panels, and re-fit them *without damage* to anything. . . . It keeps the warmth **IN** the building and harmful vapours **OUT** of the roof air-space.

**PRICE**—One GRECON Pack, containing all the fittings to cover a 50 sq. yd. area, costs only £10. (Plastic sealing strip and panelling extra.)

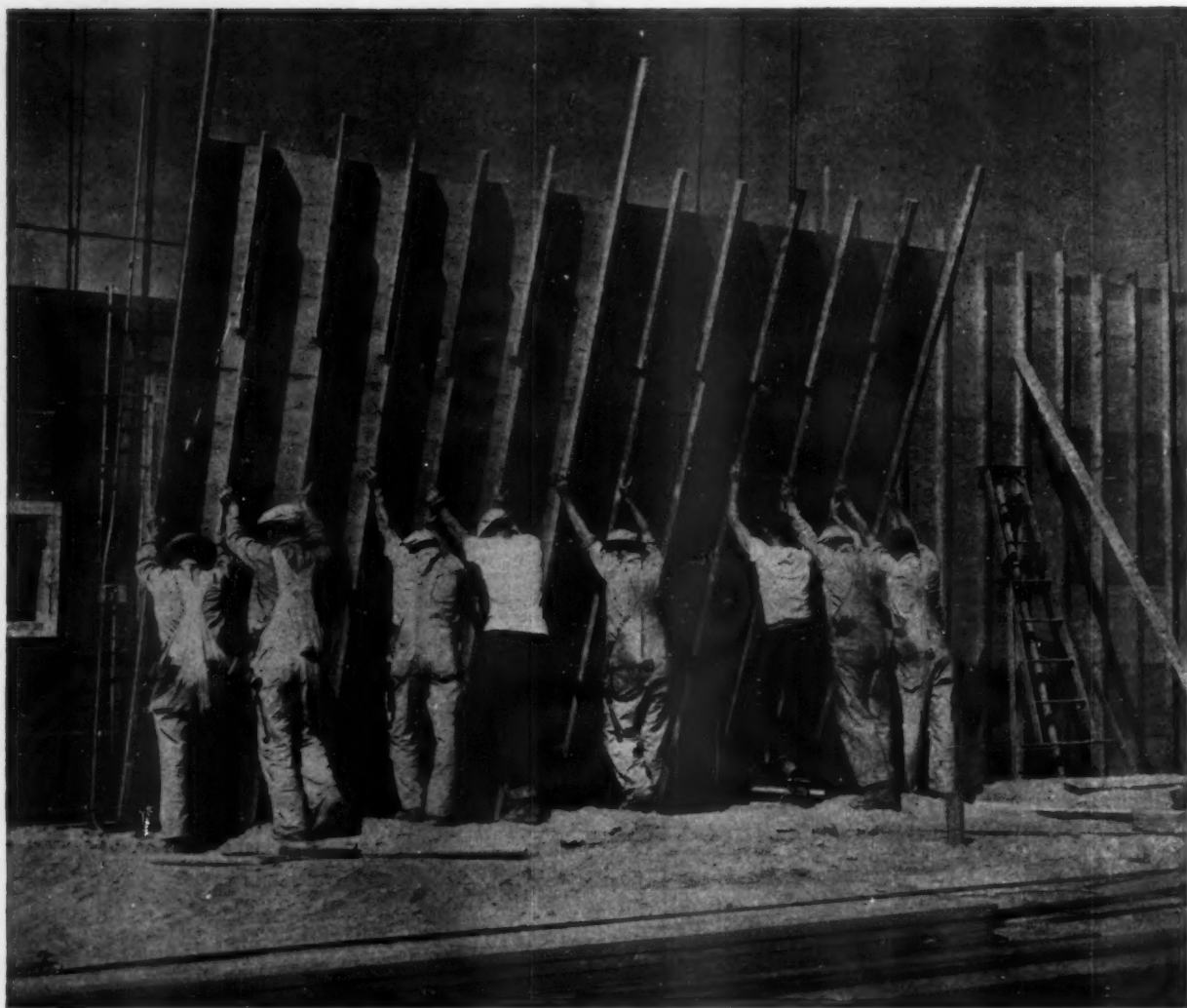
# **S y s t e m s   L t d**

29 St. James's Street, London, S.W.1

Telephone: TRAfalgar 1454



# Seaboard Fir



**speeds construction.. strong and split-proof**

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Please send me a free copy of the Seaboard Plywood Handbook (L-11) describing your full range of Douglas fir plywoods.

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**CONTRACTORS' HUTS**



**ROOF DECKING**



# Plywood Sheathing

**for roof decking, box beams, floors, shuttering and scores of outdoor uses**

Produced with a full phenolic bond . . . waterproof, weatherproof and boil-tested . . . Seaboard Douglas fir plywood is now available in two sheathing grades at prices which open up an entirely new field of use for plywood

Known as SHEATHING and UNDERLAY SHEATHING, these grades have all the structural qualities of smooth, top quality grades. Each panel covers 32 square feet, greatly reducing time and labour costs; it is split-proof and draft-proof . . . requires fewer and smaller nails; it builds into the structure the extra strength and rigidity of a material pound for pound stronger than steel.

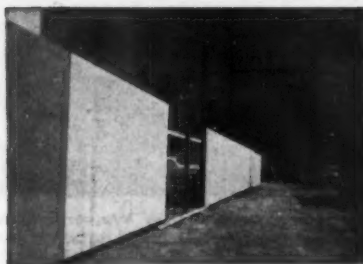
Uses for sheathing and underlay are almost unlimited — roof decking, sarking, laminated trusses, gussets, contractors' huts, farm structures and solid bases for other materials are just a few.

Investigate Seaboard fir plywood sheathing grades. If your supplier does not stock them he can order them for you.

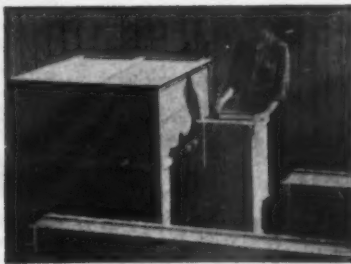


**SEABOARD**  
**CANADIAN DOUGLAS FIR**  
**PLYWOOD**

Seaboard Lumber Sales Co. Limited, Seaboard House, Vancouver 1, Canada



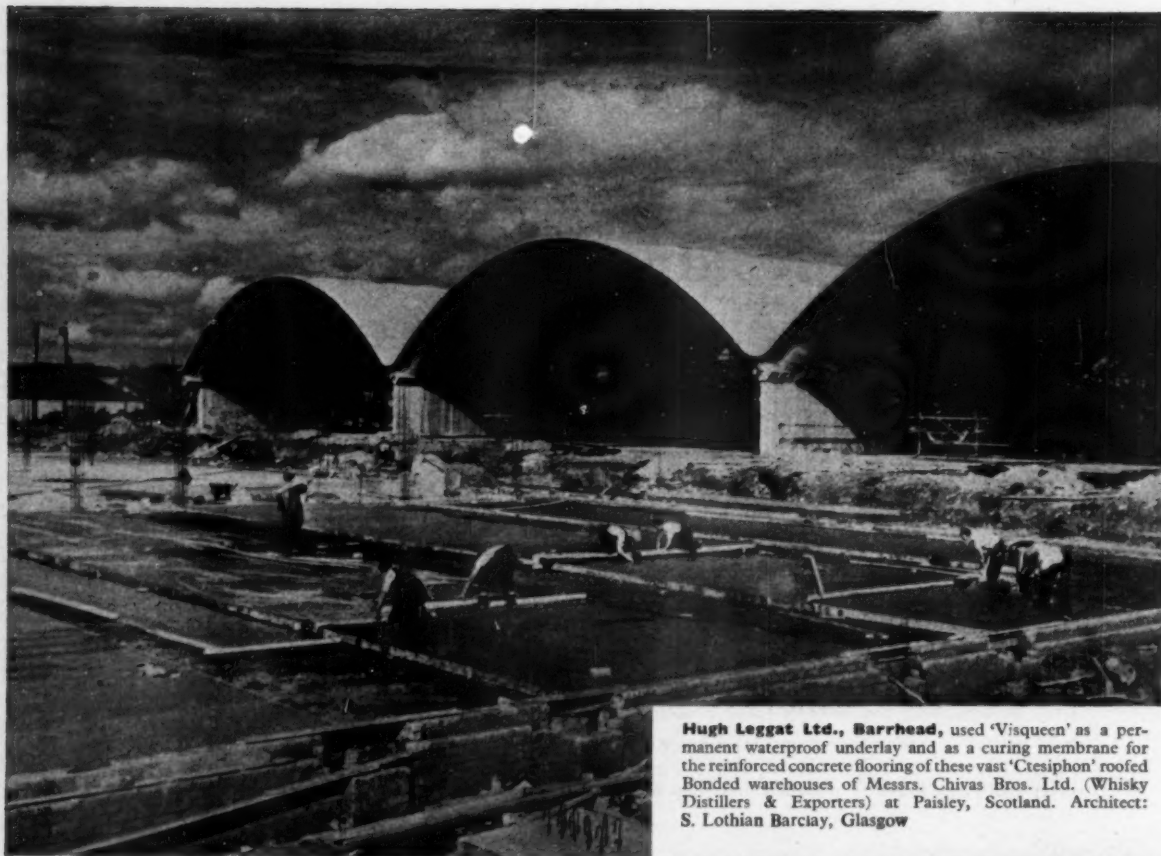
**HOARDINGS**



**PACKING CASES**



**FLOOR UNDERLAY**



**Hugh Leggat Ltd., Barrhead,** used 'Visqueen' as a permanent waterproof underlay and as a curing membrane for the reinforced concrete flooring of these vast 'Ctesiphon' roofed Bonded warehouses of Messrs. Chivas Bros. Ltd. (Whisky Distillers & Exporters) at Paisley, Scotland. Architect: S. Lothian Barclay, Glasgow

## Up-to-date builders fight rising damp with

### **VISQUEEN film**

TRADE MARK

'VISQUEEN' building sheet makes an excellent damp-proof membrane under concrete flooring and foundations. It is fully impermeable and acts as a complete barrier to liquids. 'Visqueen' also resists acid subsoils and alkalis. Once laid it will last indefinitely either in or under concrete.

'Visqueen' is inexpensive and easy to handle on site. Its lightness, flexibility, availability in wide widths and various thicknesses makes 'Visqueen' efficient and labour saving.

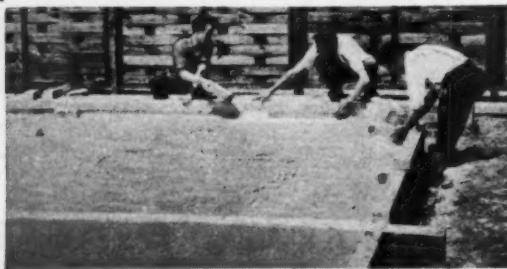
'Visqueen' 250 (medium weight) or 500 (heavy weight) is recommended for this particular application.

For an illustrated brochure, samples and prices write to the address below.

#### **BRITISH VISQUEEN LIMITED**

STEVENAGE · HERTS · 'PHONE STEVENAGE 1310

A SUBSIDIARY OF IMPERIAL CHEMICAL INDUSTRIES LIMITED



**Unity Structures Ltd., London,** used 'Visqueen' 500 (heavy weight) as a damp-proof membrane between the hardcore and concrete flooring of these two semi-detached prototype houses built by them at Ruislip. The film was laid at floor level in 12 ft. widths in one continuous strip over the party walls, and built into cavity walls at D.P.C. level.



**John McLean & Sons Ltd. of Wolverhampton,** use 'Visqueen' sheeting as a damp-proof membrane under the ground floor rafts of their "Beverley" houses in the Midlands. Architects: Diamond Hodgkinson & Partners.

BV.127/1

**H. J. HEINZ CO. LTD**  
NEW MODERN FOOD FACTORY  
KITT GREEN

Main Structural Steelwork (approx 8,000 tons) Supplied, Fabricated and Erected by

**PEIRSON**

AND COMPANY LIMITED  
(Established in the City of London 1873)



*Photograph shows the Production Building of the contract in course of erection, incorporating over 180 steel plate girders  
Architects: J. Douglass Mathews & Partners, London, in association with Skidmore, Owings & Merrill, New York*

**GRAY'S INN CHAMBERS, 20 HIGH HOLBORN  
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Telephone: Holborn 2181 (P.B.E.)

Telegrams: Allegretto, Holborn, London



Hull: Heinz new office and warehouse

Architects:  
GRENFELL BAINES AND HARGREAVES

Contractors:  
F. HALL & SONS LTD.

**JONWINDOWS**

**CURTAIN  
WALLING**



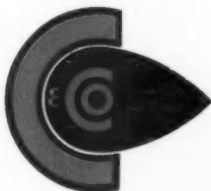
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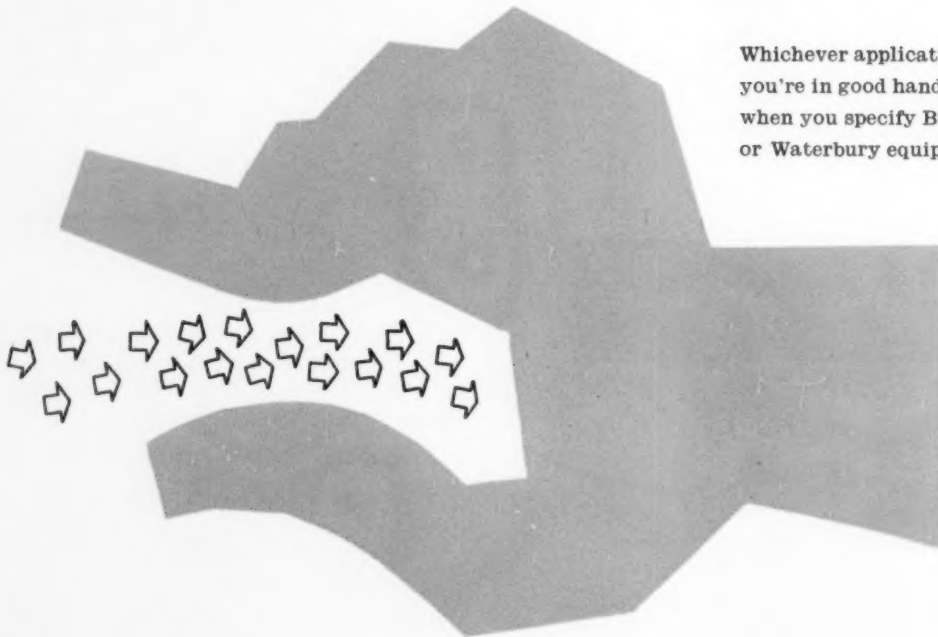
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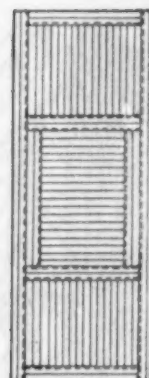
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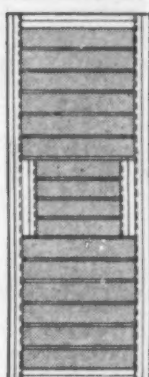
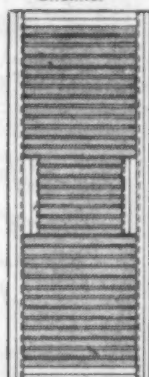
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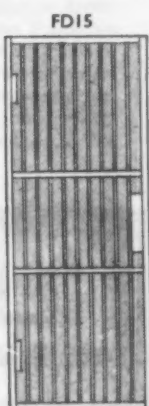
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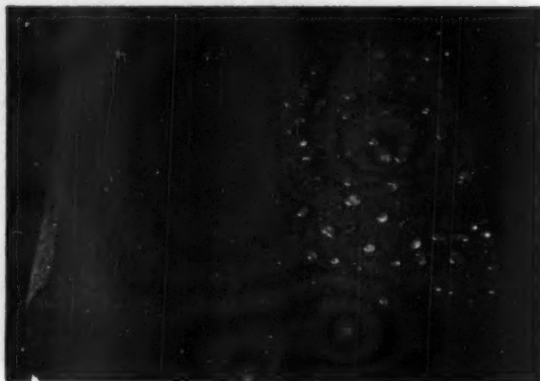
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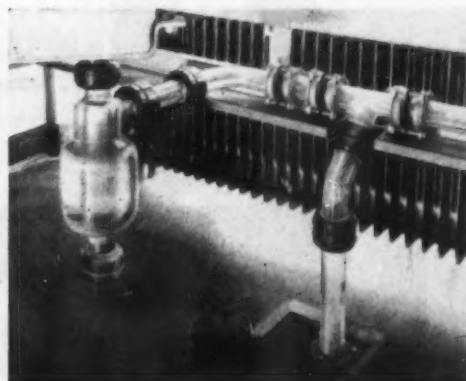
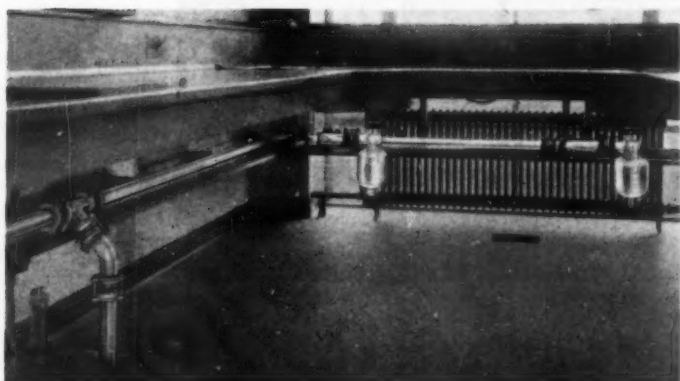
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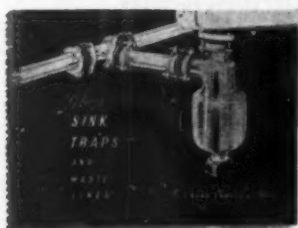
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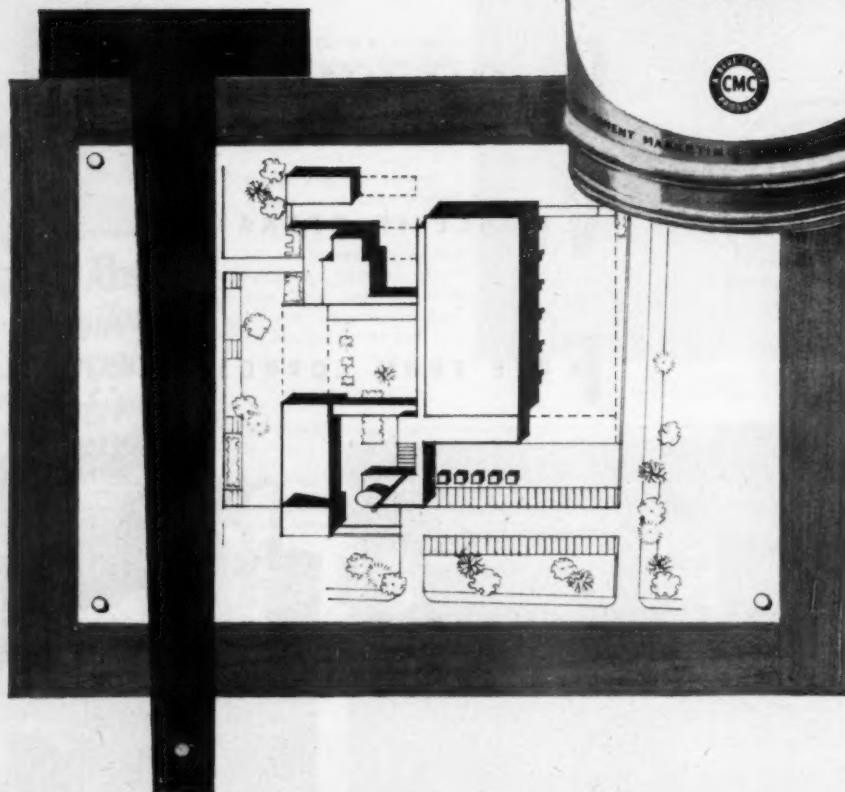
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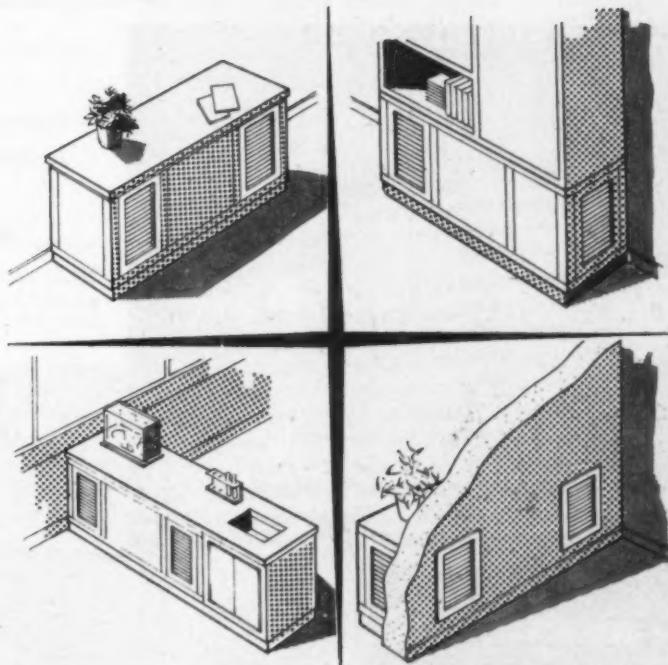
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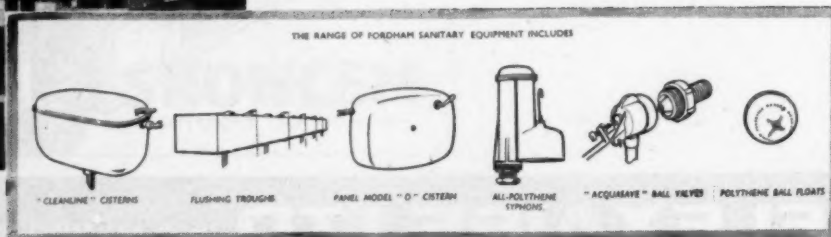


Golden Lane Estate.  
Architects: Chamberlin, Powell & Bon.

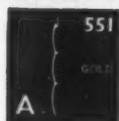
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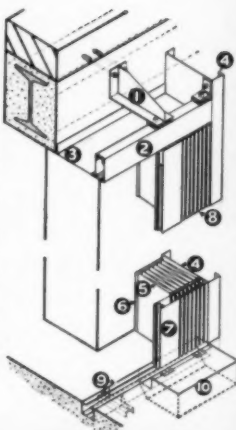
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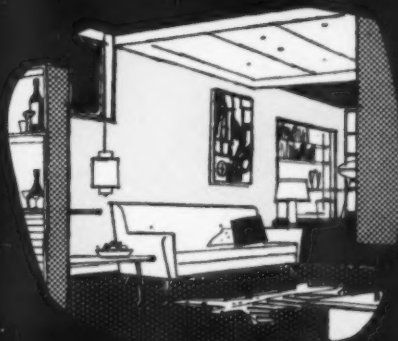
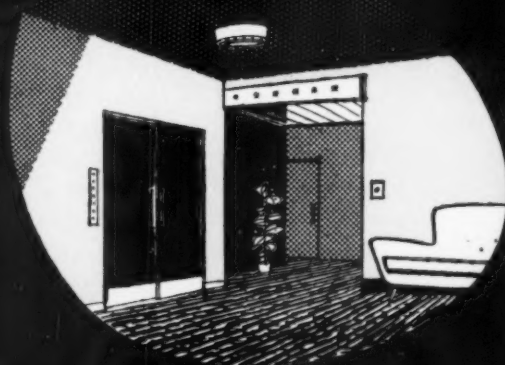
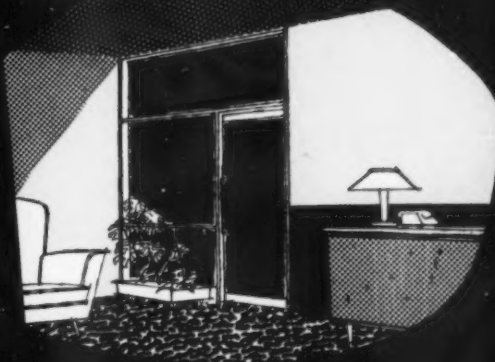
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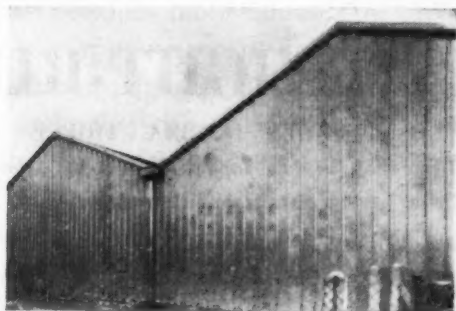
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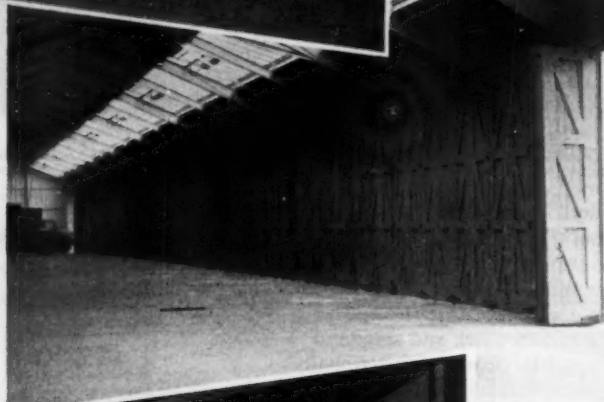
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## HOUSING AND COSTS

"FOOLS", said La Rochefoucauld, "learn from experience; I prefer to learn from the experience of others." Clearly this is the sentiment which inspires the proliferation of modern training courses; and following the thought to its logical conclusion, it will soon be impossible even to be an office boy without first enjoying something of the kind. Yet, despite the orgy of instruction which most of us have had to undergo, it often happens that much of the vital experience of others escapes us. Too often this is because it escapes those others also.

The cost of house repairs and maintenance is an example; upon it all too little is published and often this is because those who have the raw material have almost no knowledge of what is to be learnt from careful observation. The Central Housing Advisory Committee in their report published last month, and commented on in previous issues,\* make this point when they say: "Most authorities have costing systems of some kind; there is costing by trade, by type of house, or by individual jobs, but there is no general system in operation at the present time. The variety of the work, the multiplicity of small jobs, and the scattered

nature of the tasks in rural areas make the problem of costing difficult, but one which is all the more important to tackle." Of course, one can hardly learn from the experience of another unless one also understands the language he speaks. So the committee rightly observe that: "The adoption . . . of a standard method of costing would make possible far more accurate comparisons, which would in turn provide local authorities with a yardstick against which to measure their costs." We therefore recommend that an inquiry be made into costing techniques for "housing maintenance, with a view to the issue of a costing manual".

The committee say that it is understood that the Institute of Municipal Trustees and Accountants is endeavouring to evolve a standardized accounting system for house maintenance. No doubt other professional bodies are also giving the matter careful thought. It is to be hoped that they will succeed. For all around is the raw material of abundant experience in this field; if only that experience could be put in a useful form there are many who would be delighted to learn from it.

\* A. & B.N., April 1, 1959, and April 8, 1959.



## EVENTS AND COMMENTS

### MR. C. H. ASLIN

Mr. Charles Herbert Aslin, C.B.E., county architect for Hertfordshire and president of the R.I.B.A. in 1954-55, died last Saturday at the age of 65. He developed the prefabricated school and thus made Hertfordshire famous throughout the world. He also was one of the first architects to organize his office on a group basis. Light, airy structure, bright colours and great variety were the keynotes of these buildings and no man could have a happier or more satisfying memorial. Aslin was trained at Sheffield University School of Architecture and, before coming to Hertford, held positions as borough architect to Rotherham, deputy county architect of Hampshire, and borough architect of Derby, where he carried out a major central improvement scheme and built new municipal offices, police courts, bus stations, open markets and riverside gardens. He was an outstanding team leader, who collected under him some of the brightest young men of the day. He encouraged and inspired these young men and freely acknowledged that much of the success of his office was due to team work. During his years at Hertford, jobs in his office were among the most sought after in the country and the "Hertfordshire schools" became places of pilgrimage for architects from all over the world. Aslin's schools have set the pattern in this country for more than ten years and, in 1955, his hundredth was completed. Their influence has spread abroad.

Aslin was president of the Nottingham, Derby and Lincoln Architectural Society from 1941 to 1943 and was elected to the R.I.B.A. Council in 1945. His presidency coincided with the end of building licensing, when the building industry was in a more cheerful mood than for many years past. In his inaugural address he spoke of the need to study the structure of the profession and thus put in motion important work which is not yet finished.

Aslin was very greatly respected for his kindness and wisdom. He was not a forceful speaker, but was always worth listening to. Under his warm and friendly exterior he could be very firm and his twinkling smile could be relied upon to deal with all pomposity in others. Those who knew him will remember how wonderfully he was supported by his wife during his presidency and will extend their sympathy to her and her daughter in their loss.

### SIR GEORGE PEPLER

Sir George Pepler, who died last week at the age of 77, was among the world's most famous town planners. From 1919, until his retirement in 1946, he was technical head of planning in that department of the Government which now, after many changes of name, is known as the Ministry of Housing and Local Government. With Adams, Unwin, Lutyens, Geddes, Adshead, and a few others, he launched the Town Planning Institute. When it was formed in 1913, Pepler was described on the agenda as "honorary secretary and treasurer *pro tem*". He retained the post until his death. This did not prevent him being president in 1919 and 1949. In 1953 he was the first to receive the Institute's gold medal, an honour shared only with Sir Patrick Abercrombie and Lewis Mumford.

Pepler originally set up in private practice as sur-



The late C. H. Aslin, C.B.E., when president, R.I.B.A., at the Harrogate Conference, 1955

veyor and planner, with Ernest Allen, and the firm flourished as pioneers of the modern layout of villages and towns on garden city lines. He was, however, persuaded to enter the Civil Service by John Burn, then president of the Local Government Board. Pepler's last major work before leaving was the policy and machinery embodied in the planning sections of the 1947 Act. His steady and patient work during the inter-war years was a major contribution to the eventual acceptance of planning. Since he retired he had, like so many men of his kind, been busier than ever. He was always a great encourager of the young and was for many years one of the Town Planning Institute's external examiners. To quote *The Times*: "He will be remembered by generations of architects, surveyors and engineers, for the way in which he could put students at their ease and draw the best out of them."

### 21 YEARS OF COAL RESEARCH

To celebrate its coming of age, the British Coal Utilisation Research Association last week threw open to inspection its extensive laboratories at Leatherhead. Doubtless everyone, from the director-general to the most junior assistant was on his best behaviour, for not a trace of smoke could be seen coming from any of the very many chimneys on the site.

The B.C.U.R.A. is one of those remarkable smooth-running organizations which are supported jointly by the Government and industry, the nationalized fuel industries and the British Transport Commission on the one side, and about 150 companies and trade associations on the other. The object of the association is:



"To promote research and other scientific work in connection with the utilization of coal and its derivatives." It has a total staff of some 300 and an annual income of £413,000. The association's laboratories are housed mainly in single-storied laboratories set in the middle of playing-fields and gardens. For the occasion, each room in each laboratory was clearly labelled with an explanatory text which, even to the non-scientific mind, showed the great scope of the work being undertaken. Science has advanced so far since I took the school certificate, that I found very few words that I could understand. An inquiry, innocent enough, about fluorine, brought such a spate of scientific jargon from an enthusiastic young man in a white coat, that for the most part I made my tour in silence. I did, however, establish contact with someone in the glass-blowing lab. Here they make all the complicated glass vessels used elsewhere in the buildings. Could I, I asked, make a still; not for whisky, but for water, because I found that distilled water was exorbitantly expensive. "Ah", said the magician in charge, "you, too, have a steam iron; you are the third person to ask me that question this morning." The testing of domestic appliances was more in my line, though I quickly sank out of my depth in the calorimeter room. Experiments in completely automatic smokeless firing of small coal by means of forced-draught chain-grate boilers were most interesting and showed the association to be very keenly interested in competing with oil. In a commercial product of the type shown, ash disposal once or twice in 24 hours would be the only attention required. The most exciting building had a large notice, "No admittance", at its door. Inside, there was a lot of complicated machinery with white-coated, dark-goggled attendants waiting upon it. Their reports were relayed by loudspeaker. Outside, the biggest geyser in the world was heating water specially for pouring down the drain. Though more than nine-tenths of what I saw was quite beyond me, I did realize the extent of the work being done and was pleasurably surprised at the proportion of it which concerned the pollution of the atmosphere, either by smoke or sulphur. No service establishment was ever better prepared for inspection. It was a most impressive display.

#### CHURCHILL COLLEGE, STAGE II

The results of Stage I of the limited competition for Churchill College, Cambridge, are a triumph for the young men, the new brutalists and the A.A. The firms selected to proceed with Stage II, at a fee of £500 each, are: Howell, Killick & Partridge; Chamberlain, Powell & Bonn; Richard Sheppard, Robson & Partners; and James Gowan and James Stirling. Howell, Killick, Powell, Sheppard and Robson were all trained at the A.A. Gowan is at present on the A.A. staff. The results of Stage II will be awaited with growing excitement.

#### PROPOSED HOOK OIL REFINERY

A public inquiry is to be held next month on the subject of the proposed Caltex oil refinery at Hook, on the mouth of the Hamble river. Southampton Water has been progressively industrialized for years, and those who live nearby, or who go there for pleasure, have already suffered, to say the least, great inconvenience from the Esso refinery at Fawley. The new refinery would put the lid on it. Not only would the noise and smell be very greatly increased, but the proposed 1,000-yard pier, with a 300-yard arm at its head, would very severely restrict small-boat movement. In



The late  
Sir  
George  
Pepler

addition, oil pollution would be bound to increase. Experience has shown that however hard the refinery authorities try, and however high the legal penalties, accidents do happen.

The Royal Yachting Association, which, on a slender budget, fights for all sailing people in the country, is to oppose the project with all its strength, and needs financial help. A great many members of the building industry go sailing. Do you? Are you a member of the R.Y.A.? Won't you help them to fight this battle?

#### SOLENT NATIONAL PARK PROPOSAL

The latest news about this idea (see A. & B.N. for April 15, p. 468) is that the M.o.H.L.G. last week received an all-party deputation of both Houses of Parliament, in which the House of Commons Yacht Club took part. The deputation consisted of Sir Alfred Bossom, B.T., M.P. (Admiral), Major H. F. B. Wall, M.P. (Commodore), Mr. John Cronin, M.P. (Rear-Commodore), Surgeon-Lieut.-Commander R. F. B. Bennet, M.P. (Hon. Sailing Secretary) and Lord Mottistone. It is a curious thing that we are now so democratic, that the words yacht, yachting and yachtsmen have a pejorative meaning. This has been realized by the Royal Yachting Association. These Y-words, it suggests, should not be used in correspondence or complaint about the Hook oil refinery, for example, as apparently they conjure up in the common mind ideas of white-coated stewards, cool drinks and basket chairs and awnings woven of privilege. If it is really as bad as all that, the R.Y.A. should change its name to the Royal Sailing Association, although that might cause confusion in the Adelphi.

#### DEPUTATION FROM CANADA

A high-powered delegation of Canadian planners, led by Mr. Macklin Hancock, the designer of Don Mills new town, near Toronto, is due at London Airport tomorrow. In three and a half days it will take in the state of planning and architecture in the country before going on to Copenhagen (half-day) and Stockholm and Vallingby (one day). So that nothing shall be missed, the delegation will have its own secretary and cameraman. If you want to know more, telephone I.M.P.A.C.T. Ltd. AMB 5494.

ABNER

## NEWS

### R.I.B.A. Statement on Town and Country Planning Bill

The following statement was issued last week by the Royal Institute of British Architects. On Thursday last an amendment to the Bill on the lines suggested in the statement was tabled by Lord Silkin, and rejected by 54 votes to 19—Government majority, 35.

"The Royal Institute of British Architects is concerned at what it anticipates will be the harmful effects on the planning of our towns and countryside of the new Town and Country Planning Bill, and wishes to propose an amendment which would overcome these without upsetting the principle of compensation at current market values.

"The Institute considers that it would be unrealistic to suggest that we could now go back to the 1947 Act. Its dismantling began with the 1954 Act which abandoned the attempt, by compensation for development rights, to secure the sale of land at existing use values. One usually starts dismantling a building by taking the roof off, and once this is done the rest of the structure is doomed. The question now is—can a temporary roof covering be devised until either permanent repairs are possible or a new structure can be designed?"

"Compulsory purchase by local authorities at restricted values was obviously unfair to land owners once the 1954 Act allowed the free sale of land at current market values. The new Bill before Parliament will remedy this relative injustice, but in doing so, will, in the Institute's view, place local authorities in an invidious position. The preparation of development plans and their quinquennial reviews is a statutory obligation placed upon them by the Government. If these plans are to be objective it is most undesirable that authorities should be placed in a position of having to zone land for uses which give enhanced values when in the future they may, in the public interest, be acquiring some of this land compulsorily and thus be forced to buy back values which they themselves have created.

"Local government policies do not remain unaffected by financial considerations of this kind, and who can blame a local authority if, in the interests of its rate-payers, it decided not to include in its plan future proposals beyond an immediate five-year period. If the land where development is anticipated is kept zoned at its present lower value there is always a chance of acquiring at that value, waiting five years (the period which the present Bill stipulates) and then zoning the land for its intended use.

"The amended approach which the Institute wishes to suggest aims to keep the prices for compulsory purchases on a stable basis, so that when changes are considered at quinquennial reviews, the local planning authorities will have no incentive to keep their future plans hidden away in order to avoid increased compensation. The principles of the amendment are:

"1. The owner of land subject to compulsory purchase shall receive compensation at current market values.

"2. The local authority shall pay a sum related to the 1947 value of land, but adjusted to present-day money values.

"3. The difference between the two values shall be borne or collected by the central government.

"Under the existing Act compensation for compulsory purchase is based on the existing use value plus eight-sevenths of the admitted claim on the 300 million pounds compensation fund, the extra one-seventh allowing for interest between 1947 and 1954. This addition could now be increased to allow for the change in money values, thus keeping the Government's contribution to a minimum. Local authorities would pay more than previously, but their payments would still be proportional to 1954 values.

"As local planning authorities carry on their activities

in the furtherance of national legislation, it would seem equitable for the national exchequer to meet that proportion of the compensation bill which would enable planning to be pursued in a proper way. This principle is already accepted in respect of compensation for planning restrictions. The amount of land compulsorily purchased in England and Wales during 1957 (the latest year for which records are available) was only 614 acres. The annual cost to the Government of the proposal cannot, therefore, be very great and it could be kept within reasonable limits by adjustment of the amount to be added to the 1947 values. It would, of course, be open to the Government to introduce some form of collection of betterment arising out of increased values so as to offset the national expenditure involved, but this is a matter for the future. The Institute considers that the immediate and urgent need is to make sure that planning authorities are not driven to secrecy in their forward-looking proposals, and to give time for fresh thought on the fundamental problems involved, and the amendment suggested by the Institute has these aims in view."

In introducing the amendment, Lord Silkin said that in the majority of cases the Bill would involve local authorities in greater expenditure.

Replying, the Lord Chancellor said the Bill was unlikely to add more than one or two per cent to local authority expenditure.

### Architect A.R.A.

Raymond Erith, the architect who designed the new Provost's Lodgings at Queen's College, Oxford, has been elected an associate of the Royal Academy. Three associates, Gilbert Spencer, Eric Kennington, and Lord Methuen, painters, have been elected Royal Academicians.

### Building Unions and New Techniques

Members of the National Federation of Building Trades' Operatives, who met in London last week (see A. & B.N. leader, Feb. 18, 1959), gave considerable thought to the development of new techniques in the building industry, said Sir Richard Coppock, general secretary of the N.F.B.T.O., at a press conference held last Thursday, before the end of the talks.

The main problem appeared to be that of "specialized" fixing teams, trained up from unskilled labour by various manufacturers. Where new ideas were adopted on building sites, these special teams with limited craftsmanship were taking work from the skilled craftsmen who had learned their trade by apprenticeship and could quite easily tackle the "special" system.

Sir Richard also complained that the operatives were not consulted before the introduction of new methods; they should be brought in at an earlier stage. When questioned about this it turned out that he meant that the N.F.B.T.O. were willing, if asked, to advise manufacturers on similar lines to consultations with the Building Research Station.

On the problem of demarcation arising from the introduction of new techniques, Mr. Harry Weaver, vice-president, N.F.B.T.O., said that with the breakdown of individual handcraft skills, and the extension of the simple skills, it was difficult to decide where these skills overlapped from one trade to another. Within the federation they had their own demarcation committee which had satisfactorily solved all demarcation problems which had so far arisen.

The president, Mr. Jim Mills, told the A. & B.N. that the conference had discussed the widening of the apprenticeship training scheme. They would like to see what they call "inter-availability", which is, presumably, an apprenticeship scheme under which craftsmen may move from one trade to another within the industry according to the demands upon it.

But in order to tackle the problem of new techniques, the federation is now to seek a joint conference of everyone in the industry—from architect to operatives.



A view of the U.S. Embassy nearing completion at Grosvenor Square, London

Another target was the unification of negotiations in the civil engineering and building industries now that the former group includes more craftsmen. There was also the problem of the growing mechanical side of both industries which might be considered at the same time.

### Conurbations and Green Belts

Addressing the Town and Country Planning Association in London last week on "Planning Prospects and Policies", Mr. J. R. Bevins, Parliamentary Secretary to the Ministry of Housing and Local Government, said it was remarkable how far public opinion accepted that the indefinite extension of the great urban masses could not be tolerated.

Whatever advantages the conurbations offered, they could not be represented as ideal examples of planning, he said.

"The speculative builder, working with little control, and the housing authority, working with little experience, have too often produced a drab mass of building with none of the advantages of a real community, and characterized rather by tedium and anonymity than by any civic spirit. To put these conditions right is going to be a long and slow job. But what we ought to be able to do is to avoid repeating the same mistakes. I am not so foolhardy as to suggest that we can be confident of doing that, but we have gone a good deal farther on this road than many of the critics of planning are prepared to admit.

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"Through the development plans, an estimate has now been made of the land needs of the large urban areas for a number of years ahead and provision has been made to meet these needs. Some of this provision will be for peripheral development—some of you may think that too much of it will be or that the Minister should not have allowed some of the proposed departures from the carefully worked out provisions of the development plans. There is always room for argument about individual decisions of this kind. But there can be no argument that the planning authorities, and the Minister, make a careful and conscientious endeavour to assess probable needs, taking into account the importance of avoiding waste of good agricultural land and fine landscapes and of getting a sensible and agreeable disposition of the various kinds of new development. As a result, the relevant development plans are based on a general acceptance of the fact that the indefinite extension of the great urban masses cannot be tolerated. It is indeed remarkable how far that fact is accepted by public opinion

and by the elected representatives who sit on our local councils.

"The Metropolitan Green Belt is the only one formally recognized in approved development plans; but you may remember that, in 1955, a circular asked local planning authorities to consider establishing formal green belts in certain defined circumstances, namely, to check the further growth of large built-up areas; to prevent neighbouring towns from merging into one another; and to preserve the special character of towns of outstanding historical or architectural value.

"Now a number of local planning authorities have reached provisional conclusions as to the extent of the proposed green belts and, by and large, the existing position is being held in those areas until such time as it can be decided whether they are to be formally included as green belts in the development plans.

"The proposals which have been made include extensions of the Metropolitan green belt, and green belts round all the other five main conurbations in England, i.e., South-East Lancashire, West Midlands, West Yorks, Merseyside and Tyneside. In addition there are proposals for Tees-side; Nottingham and Derby; Bristol and Bath; Sheffield and Rotherham; Portsmouth and Southampton; the Potteries; and some individual towns of special character, such as York and Oxford. These proposals are not in final form and they will be going to inquiry; but the special control which is now in existence in these areas should ensure that, if the final decision is that they should be declared green belt, they will still be green when the decision comes to be taken!

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"It so happens, however, that the pressure on land does not cease just because the immediate source of supply is cut off. The pressure from the great cities is enormous, and the legitimate demands of those in need of housing, and of the expanding industrialists, cannot be ignored. Places must be found—not just anywhere out of the blue—but somewhere where the population can form a new community or can be absorbed into an existing community. This is where we come to planned 'overspill'.

"The L.C.C. have now made agreements for a number of quite substantial town development schemes; and they are also considering carrying out a scheme of new town dimensions themselves. The Government, who, two or three years ago took powers to pay subsidies in just such a case, have told them that they have no objection in principle to this proposal so long as a suitable site can be found. There has been some talk in the newspapers about a particular site, but in view of the Minister's responsi-



ties in relation to any specific proposal I cannot very well comment now. But certainly this is a very live issue.

"Liverpool have come to quite a remarkable agreement with Lancashire, covering in part peripheral development and in part town expansion schemes, some of them really quite substantial, and they have also made an agreement for a scheme across the Mersey at Ellesmere Port. Manchester have a number of schemes at various stages of development, and Bristol, Wolverhampton and Salford all have schemes in operation.

"Birmingham is rather a special case. They have made a number of agreements with authorities over a wide area for expansion schemes, and a start has been made on some in Staffordshire; but you will have seen that they have

recently made application for what would in effect be a large-scale peripheral expansion in Warwickshire and Worcestershire. Since these applications have been called in for decision, I cannot say anything more about them, but at the inquiry the arguments as to the best way of coping with Birmingham's overspill problems will be thoroughly canvassed."

### The Ninety-ninth B.B.I. Dinner

Doubts whether a benevolent builder exists were dispelled last week when this well-attended event took place with customary good cheer at the Dorchester. From the speeches your scribe learnt that the Builders' Benevolent Institution was born in 1847 "for the relief of old masters". The first president was also president of the Master Carpenters' Society. According to records of the first annual dinner, which have survived since it was held in 1848, "160 gentleman enjoyed fish, poultry, vegetables in season, champagne—and thirty ladies in the gallery".

The president made clear that the B.B.I. needs more funds. Recipients of relief are now scattered countrywide, including Scotland. Builders were reminded that bad luck or an accident could cause anyone to need the support of the institution's funds.

The toast of the institution and its president was proposed by the guest of honour, Arthur H. Ley, F.R.I.B.A., and was responded to by Lieut.-Col. T. G. Galbraith, the B.B.I. president. Col. K. J. Pearce, T.D., president, L.M.B.A., proposed the guests, and T. V. Prosser, president, N.F.B.T.E. responded. Among principal guests were: Nigel Hannen, B.A., immediate past president, B.B.I.; R. Chapman, London chairman, Building Industry Distributors; N. H. Fowler, F.R.I.B.A., vice-president, R.I.B.A.; H. Humber, Master of the Worshipful Company of Plasterers; E. D. Walford, F.R.I.C.S., chairman, London Quantity Surveyors' Committee; W. G. Wermerling, vice-president, London Region, N.F.B.T.O.

### R.I.B.A. Meeting

Following the announcement of the Council election results at the R.I.B.A. on June 16, the president will talk about his recent tour in Africa and will show coloured slides taken during his visit.

### Ancient Monuments Boards

The Minister of Works has reconstituted the Ancient Monuments Boards for England and Wales. The members of the boards, who have been appointed under the provisions of the Ancient Monuments Act, 1913, for a term of five years from April 1, are:

England.—Sir Eric de Norman (chairman), M. S. Briggs, R. L. S. Bruce-Mitford, Professor J. G. D. Clark, Trenchard Cox, Professor W. F. Grimes, Dr. D. B. Harden, Professor C. F. C. Hawkes, Dr. J. N. L. Myres, Nigel Nicolson, C. A. Raleigh Radford, P. K. Baillie Reynolds,

Views of the excellent new restaurant and foyer at Grosvenor House, designed by R. D. Russell and Partners and executed by Russell Bros. (Paddington) Ltd. Wall panels are finished in a bluish-grey Regency damask pattern; panelling is veneered Brazilian rosewood; banquette seating and chair covers, a two-tone red replin; the carpet, bluish-grey. The ceiling (fibrous plaster) is coloured in three tones of gold applied to the pattern to give a "3-D" effect. Light fittings (by the designers) in the restaurant look as though they were illuminated by gas mantles. The stainless-steel uprights in the restaurant help to divide off the higher level area near the windows from the dance floor area. The looking-glass wall opposite the windows, leaden grey in tone to give warmth, is decorated with a rose design by Robert Goodden, C.B.E. By day, part of it slides across to hide the orchestra stage.







The new extensions to the Wellcome research laboratories at Beckenham which will be opened by Sir Henry Dale, O.M., chairman of the Wellcome Trust, on Friday. These are the first two stages of a five-year development plan costing £2,000,000. Architects, Waterhouse and Ripley

Professor I. A. Richmond, Marshall Sisson, Sir Mortimer Wheeler and a representative of the Royal Commission on Historical Monuments.

**Wales.**—J. D. K. Lloyd (chairman), Professor R. J. C. Atkinson, Professor E. G. Bowen, Professor A. H. Dodd, Professor J. G. Edwards, Professor W. F. Grimes, W. J. Hemp, A. H. A. Hogg, C. A. Raleigh Radford, P. K. Baillie Reynolds, Dr. H. N. Savory, Sir Ben Bowen Thomas and Professor Davil Williams.

### Exhibition of Chinese Architecture

The Chinese Exhibition has now arrived in this country and will be presented at the R.I.B.A. early in July and not in June as previously announced. This later showing will mean that the exhibition will remain on view for a longer period and will therefore allow more people to visit it.

### Chartered Surveyors to meet at St. Andrews

The third annual conference of the Royal Institution of Chartered Surveyors will be held this year from June 23 to June 27 at the University of St. Andrews, Scotland.

### Examination Exemptions

New regulations have been approved by the Building Surveyors' Institute by which certain examinations of other bodies give exemption from the Associate examination of the institute. Details are obtainable from the institute at 186/7 Temple Chambers, Temple Avenue, London, E.C.4.

### Regional Cost Control Conferences

R.I.B.A. regional conferences on cost control, on lines similar to that recently held at Missenden Abbey, are to be arranged as follows: Bristol, July 2-4, 1959; York, October 9-11, 1959; Manchester, January 2-4, 1960; Nottingham, under the auspices of the Nottingham, Derby and Lincoln Society of Architects, on a date yet to be fixed.

### International Caravan Exhibition

An international caravan exhibition, said to be the first ever held, will be presented in Britain from September 23 to October 3, at Earls Court. Exhibits are expected from America, Germany, France and Italy, in addition to the British models. Britain last year produced 30,000 caravans—5,000 more than in the previous year—and is said to lead the world in exports of caravans and in design of touring models. It is estimated that in Britain about

3,000,000 people use caravans for holidays each year, and that a further quarter of a million use them as a permanent home. The exhibition, which is expected to attract many foreign buyers, is being organized by the *News Chronicle* and the National Caravan Council.

### R.I.B.A. Prizes for Schools

The R.I.B.A. offers annually for competition between boys and girls of public and secondary schools prizes to the total value of 20 guineas for the encouragement of interest in architecture. The prizes are awarded for essays and sketches and the closing date is September 25.

The jury will be the chairman of the Board of Architectural Education, John E. Dennys, E. M. Rice, J. S. Walkden, and A. J. P. Powell (Critic). Full details of the competition may be obtained from the R.I.B.A.

### Whitworth Fellowships to be Doubled

The Minister of Education has decided to double the value of the Whitworth Fellowship—for long the premier award in engineering—from £500 to £1,000 a year from 1960. The award in future will be given, not to newly qualified graduates, but to practising engineers who have shown themselves to be extremely able and likely to benefit from additional study and training. Applications close July 31. Details from H.M.S.O. (6d post free).

### Grants for 39 Historic Buildings

Another 39 grants towards the preservation of historic buildings in England, Wales and Scotland have been announced by the Ministry of Works. The list includes: Vanbrugh's Yorkshire masterpiece, Castle Howard; the West Country castles of Berkeley, Bickleigh and Powderham; Bridgnorth Town Hall, Salop; notable town houses now used as borough museums at Ludlow and Rochester; and almshouses, including Lord Leycester's Hospital at Warwick.

An unusual aspect of the present grants is the appearance of two licensed premises—the Old Flushing Inn, Rye (where the remarkable wall painting is the object of preservation), and the Old Bell and Steelyard at Woodbridge, Suffolk. Knole, the fine Elizabethan mansion at Sevenoaks, now in the hands of the National Trust, receives a third grant. The headquarters of a sports club, two girls' schools, an old grammar school, and a Northumbrian pele tower are among others receiving grants.

The grants for Biddulph Old Hall, Staffs (announced in April, 1958), and for the stables at Houghton Hall, King's

Lynn, Norfolk (October, 1958), have been cancelled, and the access facilities for the public previously announced have now been withdrawn.

### Motorway to By-pass Maidenhead

Work will start next month on the construction of a new road estimated to cost more than £2½ million, to by-pass Maidenhead. Later it will be extended to by-pass Slough and form part of a twenty-four mile motorway from Chiswick to a point west of Maidenhead.

### R.A.F. Beacon in William Morris Village

The Government have approved the siting of an R.A.F. navigational beacon a quarter of a mile from a Jacobean manor house at Kelmscott, Oxfordshire, once the home of William Morris, the poet and artist. Approval is subject to conditions designed to safeguard the environment of the manor house which is owned by Oxford University.

### Rates of Interest on Loans

Rates of interest on all loans advanced to local authorities, as defined in Section 10 of the *Local Authorities Loans Acts, 1945*, from the Local Loans Fund are now: up to five years, 5 per cent, and 5½ per cent for all periods longer than five years. These rates took effect on March 28.

### Presentatoin of Royal Gold Medal

The Royal Gold Medal will be presented to Professor Mies van der Rohe by Mr. Basil Spence, president of the R.I.B.A., on Tuesday, May 26, at 6 p.m.

### Leverhulme Scholarship, 1959

The Leverhulme Scholarship, tenable at the Architectural Association School of Architecture, London, value £2,500, which includes payment of fees and maintenance for five years, has been awarded this year to Mr. Francis C. Duffy, 69 Durham Road, Blackhill, Consett, Co. Durham (St. Cuthbert's Grammar School, Newcastle upon Tyne).

### Professional Announcements

Edward D. Mills & Partners have moved their office to 9/11 Richmond Buildings, Dean Street, Soho, London, W.1. Their telephone numbers are unchanged.

## Law and Administration

### Councils and Their Houses

"Collectively housing authorities now hold almost one-quarter of all the houses in the country." Thus the Minister of Housing and Local Government draws attention in *Circular 24/59* to the great importance which must therefore be attached to the management problems with which councils are faced.

The Minister in this circular emphasizes the value he places upon the report of the Housing Management Subcommittee of the Central Housing Advisory Committee and the recommendations they make on local authority housing management. The Minister lays particular stress upon certain of the committee's conclusions, which are:

"(i) housing management should be the responsibility of a *major committee*; and with the possible exception of the largest authorities, the *building and management* of housing estates should be under the care of the *same committee*;

"(ii) there are manifest advantages in bringing all the functions of management together in a *single department*;

"(iii) where a *single department* is not to be regarded as practicable, the natural arrangement would be for the

*housing manager* to be responsible for all those matters which would bring the *landlord and the tenant* into closest association, i.e., applications and lettings, rent collection, requests for repairs, and tenancy problems generally, the *engineer or surveyor* being responsible for carrying out *repairs and maintenance*."

The Minister reminds authorities that "weekly door-to-door collection of the rents of some three million council houses is expensive and cumbersome . . . and it is doubtful whether it can be justified as a matter of general practice" today. He urges housing authorities to consider experimental changes in periods and methods of rent collection.

Similarly, the Minister stresses the importance of "the need for authorities to ensure that contributions to the repair funds are sufficient to enable the houses to be kept in sound condition, and to build up adequate reserves".

He reminds councils also of the committee's opinion "that the standard of maintenance aimed at in the surroundings of houses and flats should be as high as for the dwellings themselves".

### Colliery Spoilheaps

The Minister of Housing and Local Government recently remarked in reply to a question by Mr. Roy Mason, M.P., in the House of Commons, that the National Coal Board are not at present contemplating any expensive major works to improve the appearance of existing colliery spoilheaps. He added that the board "will do what it can to improve the appearance of existing tips where this is possible by minor works agreed locally with the planning authorities".

The Minister has now issued *Circular 26/59* in furtherance of this reply in which he urges local planning authorities to pursue the possibilities involved. He particularly emphasizes that "Where planting of trees on heaps is contemplated, the Forestry Commission will be glad to give advice through their conservators. . . . The commission have made special studies of the possibility of growing trees on such heaps, and can advise on the suitability of the site for planting and the types of trees most likely to become established. The commission may also consider financial assistance where there is a reasonable prospect of establishing an economic crop of timber."

Local planning authorities are referred to the Regional Controllers of the Ministry of Agriculture where the planting of grass is envisaged and advice desired.

## Coming Events

### Royal Institution of Chartered Surveyors

May 4 at 5.45 p.m. "The New Code of Compensation" (under Part I of the Town and Country Planning Bill), by P. G. E. Haddock, F.R.I.C.S. At 12 Great George Street, Parliament Square, S.W.1.

### British Council and Joint Committee on Structural Concrete

May 5 at 6 p.m. "Ten Years of Building Thin Shell Structures", by Felix Candela. At Friends' House, Euston Road, N.W.1.

### Building Centre

May 5-16. Exhibition of "New Building Materials". At 26 Store Street, W.C.1.

### Royal Institute of British Architects

May 5 at 6 p.m. Annual general meeting. At 66 Portland Place, W.1.

### Design Centre

May 4-23. Display to mark the bi-centenary of Josiah Wedgwood & Sons Ltd.

### Town and Country Planning Association

May 6 at 9.30 a.m. Day study tour No. 1: Landscape and Planting at Welwyn Garden City. Cost: members £1 7s 6d, non-members £1 12s 6d. Applications to 28 King Street, Covent Garden, W.C.2.



Photos: JOHN PANTLIN

**T**HIS factory development, the largest in the country since the war, has been undertaken for the United Kingdom company of Heinz. The parent company of Heinz operates from Pittsburg, U.S.A.; four separate subsidiaries operate in the United Kingdom, Canada, Australia and Holland. The United Kingdom company has been outstandingly the most successful of the subsidiaries—business has doubled itself three times since the war—and additional production capacity was needed.

The choice of Wigan was made for the new factory: first, because of the high quality of agricultural produce obtained locally; secondly, because the right kind of factory labour was available in the area. In Wigan, facing a serious position because of the declining industries of cotton and coal, the establishment of the factory has been welcomed. It has, in fact, solved the local unemployment problem, and when in full production will employ about 3,000 local people. Products from the factory will include baked beans, soup and baby foods; later on, new additions to the Heinz varieties.

Mr. S. J. Heinz II, chairman of the companies, has taken a great personal interest in the whole scheme.

## THE HEINZ FACTORY, WIGAN

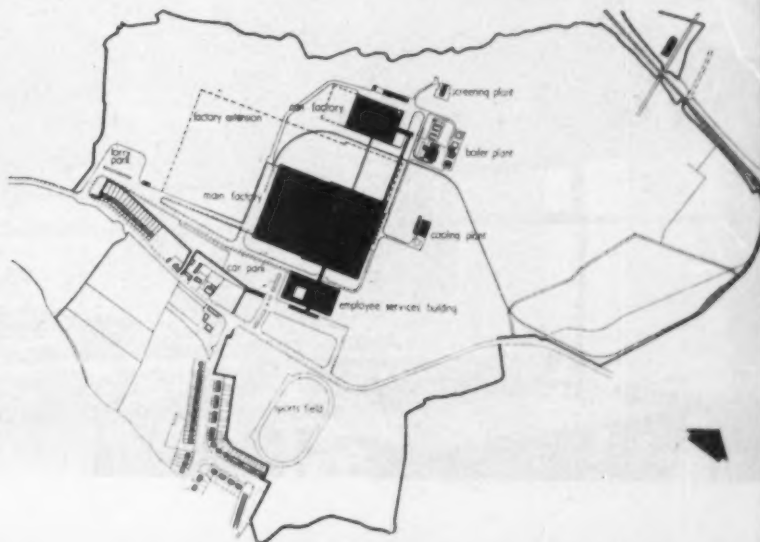
Architects: J. DOUGLASS MATHEWS and PARTNERS in association with SKIDMORE, OWINGS and MERRILL

Partners in Charge: E. D. JEFFERISS MATHEWS  
MICHAEL RYAN

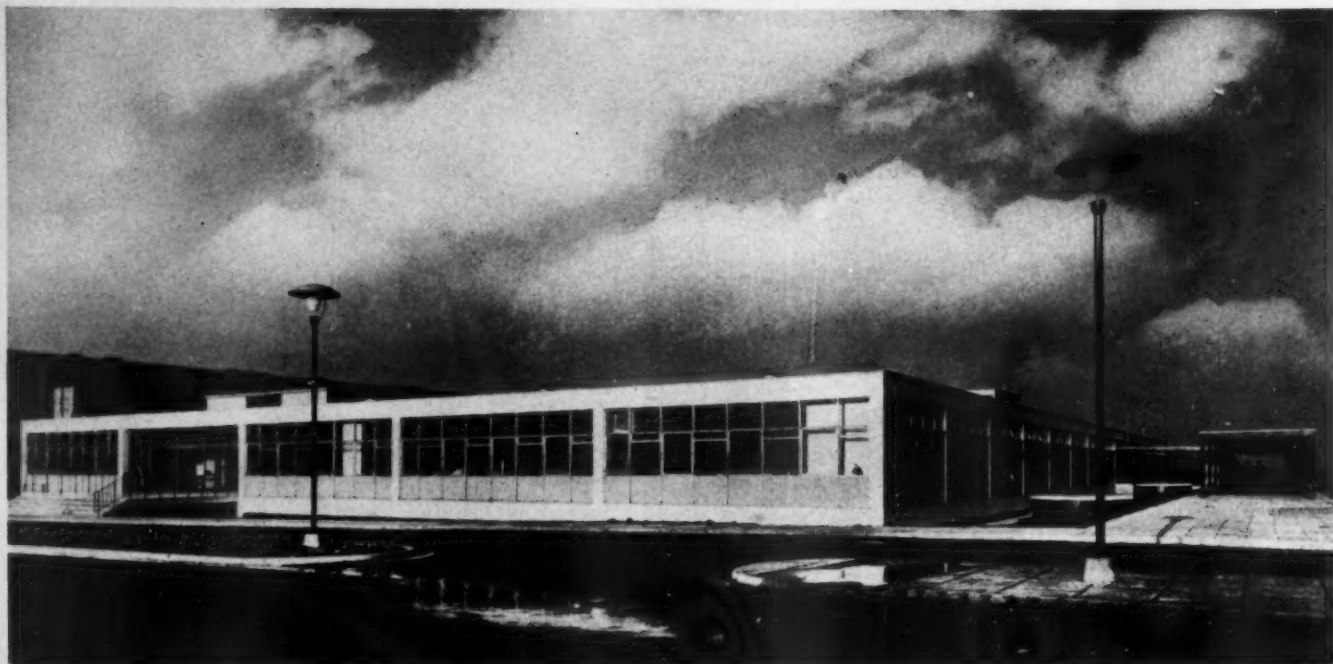
Site Architect: J. F. QUIN

### Assistants:

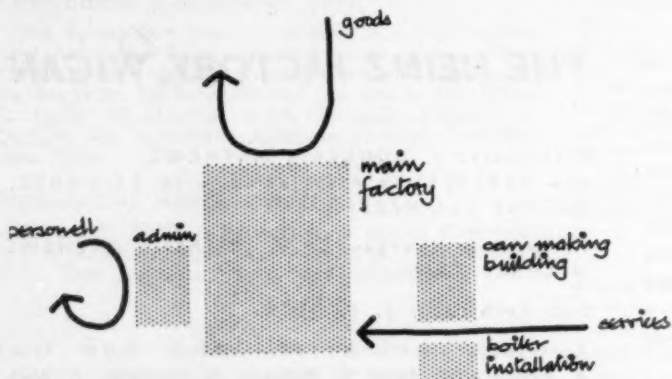
A. Rubinstein, C. Morse, K. Hathaway, H. Stachowski, F. Weal,  
A. Eallett, K. Mulcahy, R. Peto, J. Redwood, P. Darrington, R. Bennett







A line diagram shows the basic circulation for the whole factory. The entry point for personnel is through the employee services building above. Existing site levels have been used so that the bridge link with the main factory (see page 542) enters at the centre of the production "sandwich"



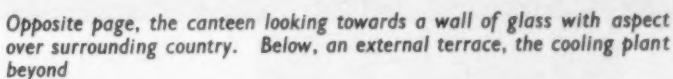
ON arrival at the administration wing at Kitt Green, one is aware of, without directly seeing, the tremendous scale that is produced by a development covering three quarters of a million square feet.

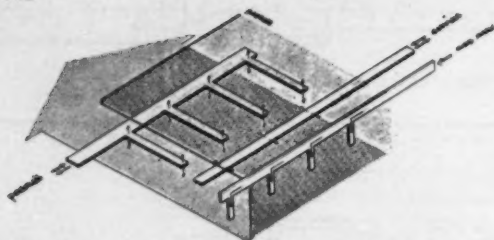
Inside the site boundary there is no single view of the total scheme because of its physical size and its horizontal planning. Rather, this total conception is built up gradually from a tour through and around the various blocks, and one arrives at the whole composition from a synthesis of aspects.

This feature of complexity, which is inherent in the nature of the project, is expressed in the contrast of diverse architectural forms: the skeletal character of the services bridge contrasting with the continuous curtain wall of the main factory; the static solidity of the cooling plant; the machine-finished and extruded effect









The diagram above shows the basic flow-line in the factory. For the main area a two-storey building was found on this site to meet the requirements most satisfactorily. Use of site gradient and ramp roads produced two working levels with an intermediate level for servicing—at high level, unloading, storing, preparing and cooking; at low level, filling, sterilizing, packing and dispatch. This two-level approach avoided the use of mechanical elevators and allowed the intake by lorry at correct levels of raw materials and exit of finished goods



THE MAIN FACTORY



Owing to the many different processes covering the manufacture of beans, spaghetti, soups, baby foods, etc., and the varying outputs of these commodities required from time to time, maximum flexibility was required. The factory was to be designed in such a way that alterations in plant layout, both after completion and also up to a late date before completion, could be made without difficulty.

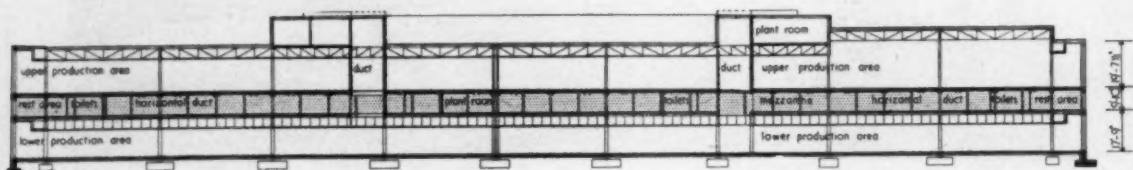
The need for flexibility was increased by the ever-changing nature of machinery for food production.

The site had a steep gradient, roughly 1 in 40—representing some 15ft to 20ft over the present length of the main building.

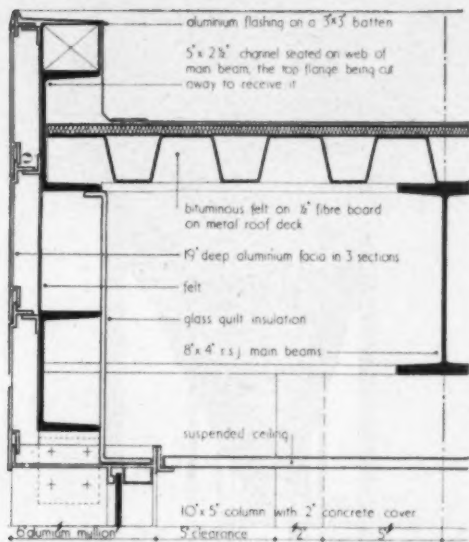
Although the site was extensive—some 127 acres—nearly half of it could not be used for building owing to old coal mines beneath. A further eight acres, forming the bank to a stream on one of the boundaries, were too steep for practical building purposes.

The usable part of the site is on the brow of a hill commanding a fine view over pleasant countryside.

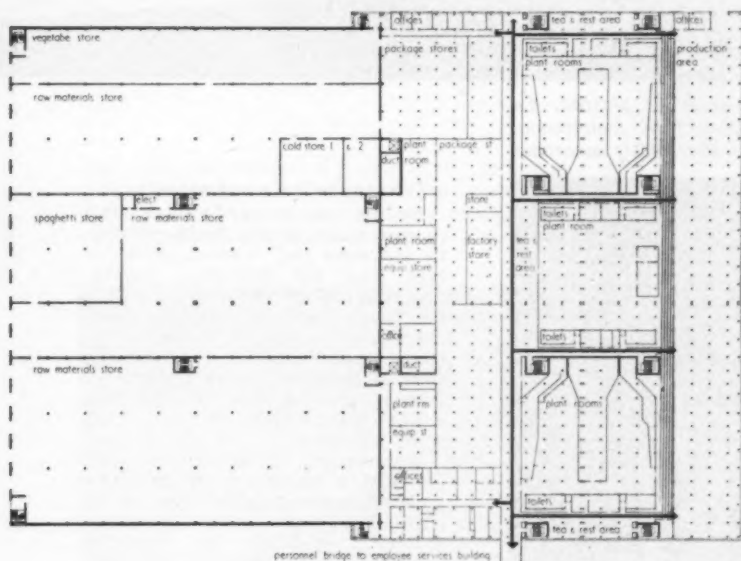
Although detailed processes varied with different commodities, the general "line" for all was similar. It could be compared with operations in a domestic kitchen on a very large scale. Food had to be washed, cut up and prepared and put into cooking utensils. From these, after cooking, it flows into filling lines where it is canned. After the cans are sealed they pass through a sterilizing process before being packed, labelled and delivered to the warehouse for dispatch. A process in the manufacture of beans is described later.



CROSS SECTION. SCALE: 1 IN=56 FT

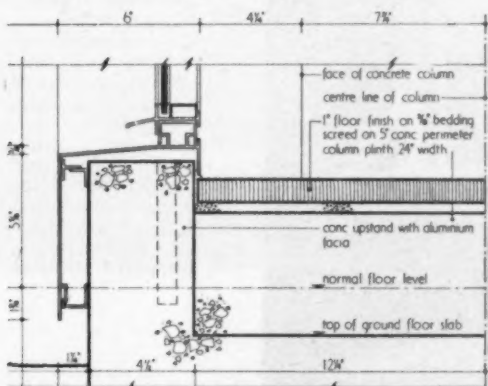


**CURTAIN WALL FASCIA 1/9 FULL SIZE**



**MEZZANINE FLOOR. SCALE: 1 IN.=144 FT**

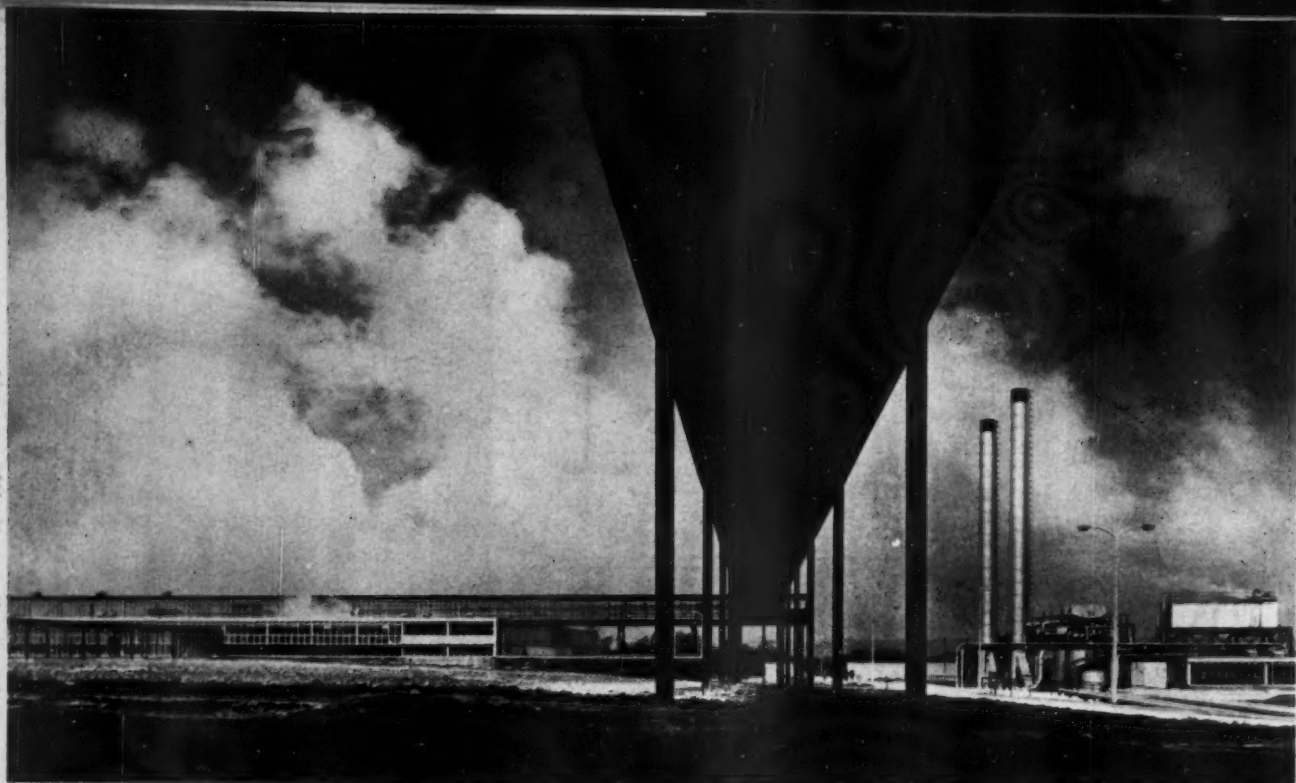
The factory "sandwich" is seen clearly in the detail, right, and night shot on the facing page. A plan above shows the centre floor in this composite section, with its personnel flow lines and services corridor. Thus personnel, materials, such as cans and packaging materials, and service pipes from the boiler installation enter this level and supply all departments up or down as required.



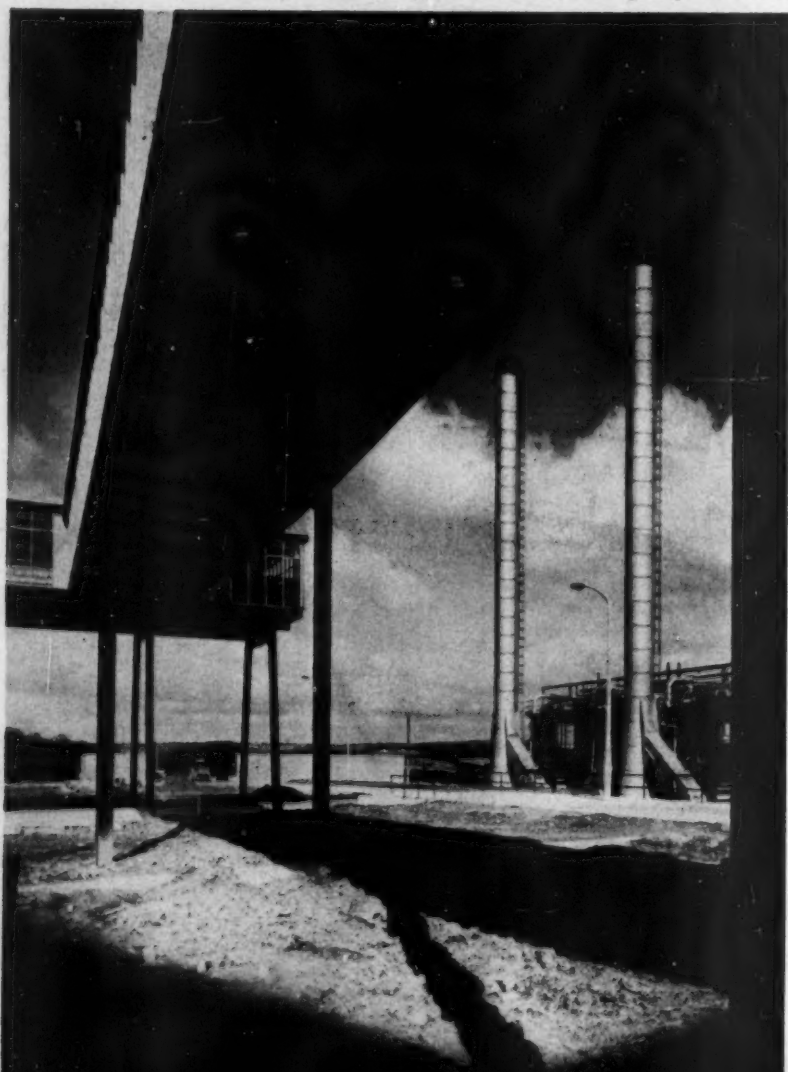
### PERIMETER UPSTAND







A separate can-making building, planned, for flexibility, with the workshops and maintenance areas, is provided with covered gantry connection



#### Architects' Conclusions

By the use of site gradient and ramped roads it was found possible to introduce two working levels—a high level for unloading, storing, preparing and cooking and a low level for filling, sterilizing, packing, warehousing and dispatch. These two levels avoided the use and maintenance of elevators to give the gravity flow required in many of the processes. They added force to a two-storey argument.

Maintenance considerations also favoured a two-storey choice. The architects advised against the use of north light and similar structures, preferring to follow the American practice of using artificial light and a simple maintenance-free roof covering. Roads and drainage were kept to a minimum and distances of travel, e.g., personnel to and from the canteen, services to and from equipment, were also considerably reduced.

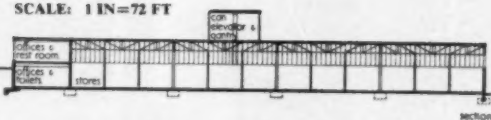
#### Basic Structure

Foundation: reinforced concrete pile caps on bored piles. Structure: warehouse section, R.C. frame; production section, steel frame; employee services building, R.C. frame. Projects' total structural steel weight 8,000 tons. Exterior walls: warehouse section, Accrington bricks, cavity walls; production section, Holoplast aluminium curtain wall, 4ft module; E.S.B., Accrington bricks, cavity walls, exposed R.C. frame. Windows: no windows in warehouse section, aluminium windows in E.S.B. Roof type: main building, light metal deck, fibreboard insulation, steel purlins.

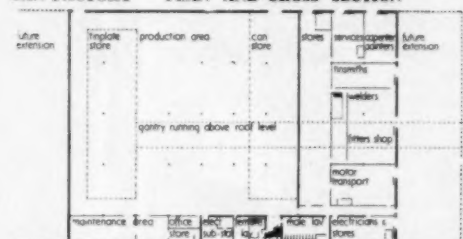


# THE CAN FACTORY AND AUXILIARY BUILDINGS

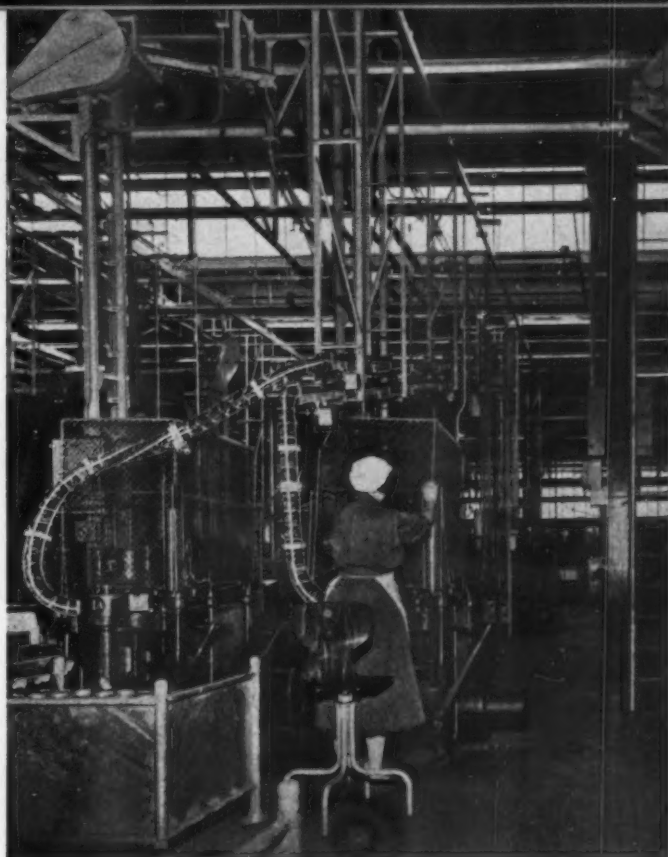
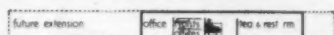
SCALE: 1 IN=72 FT



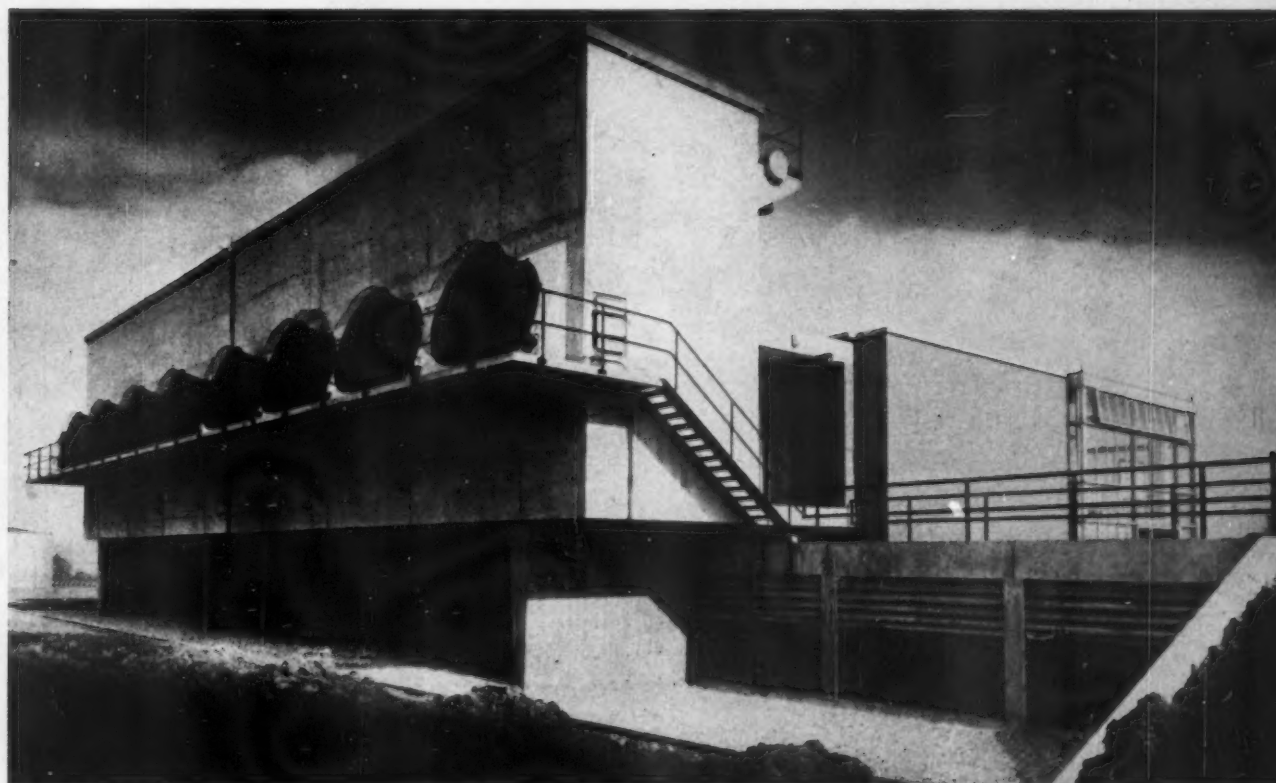
## CAN FACTORY PLAN AND CROSS SECTION

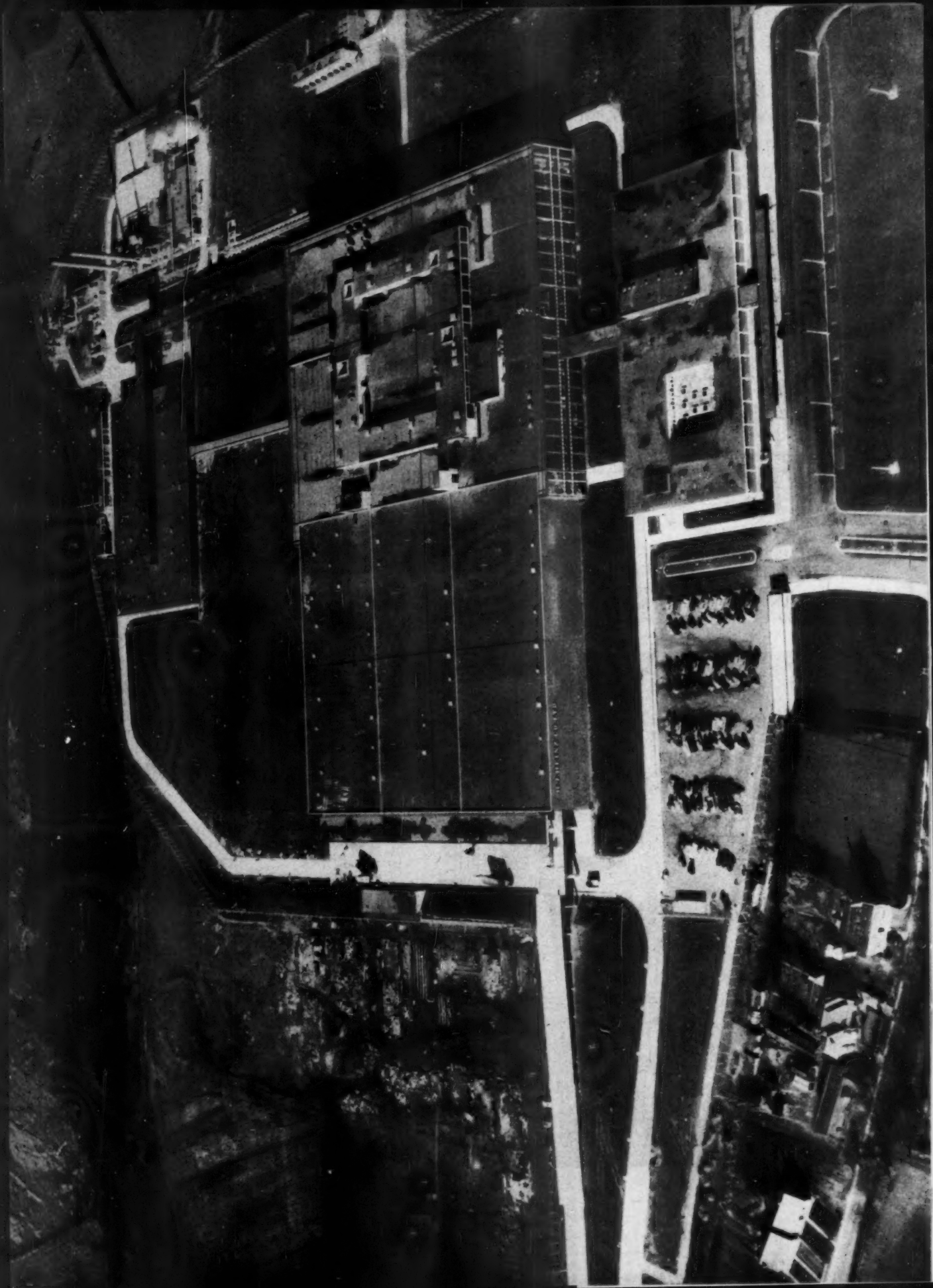


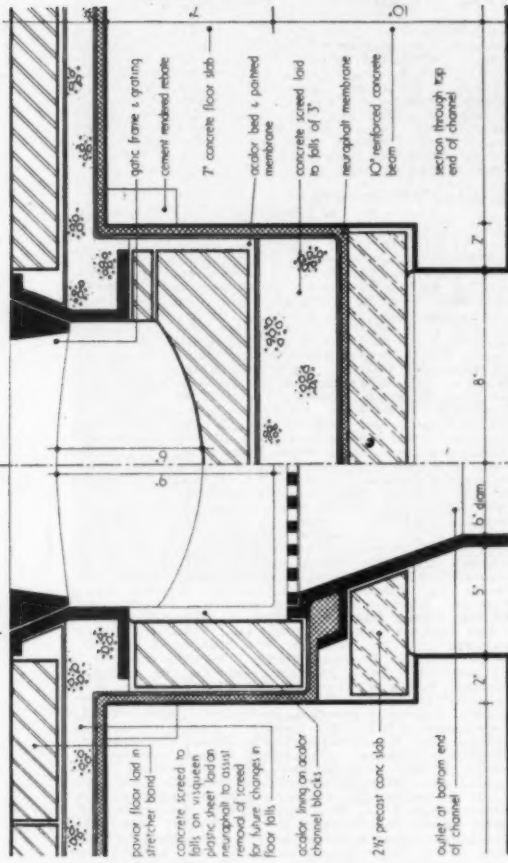
UPPER FLOOR SCALE: 1 IN=144 FT



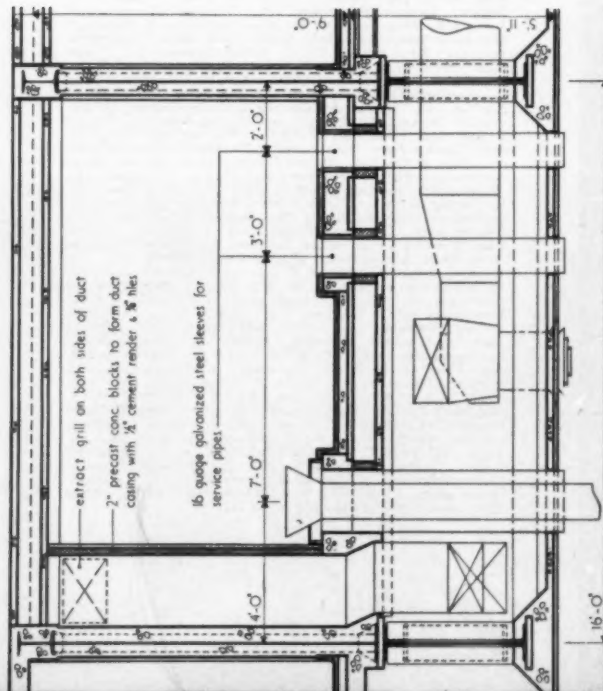
Top right, an interior shot of the can factory. Below, the cooling plant. This is a most dramatic building, its plastic concrete form standing in direct contrast with glass and metalwork elsewhere







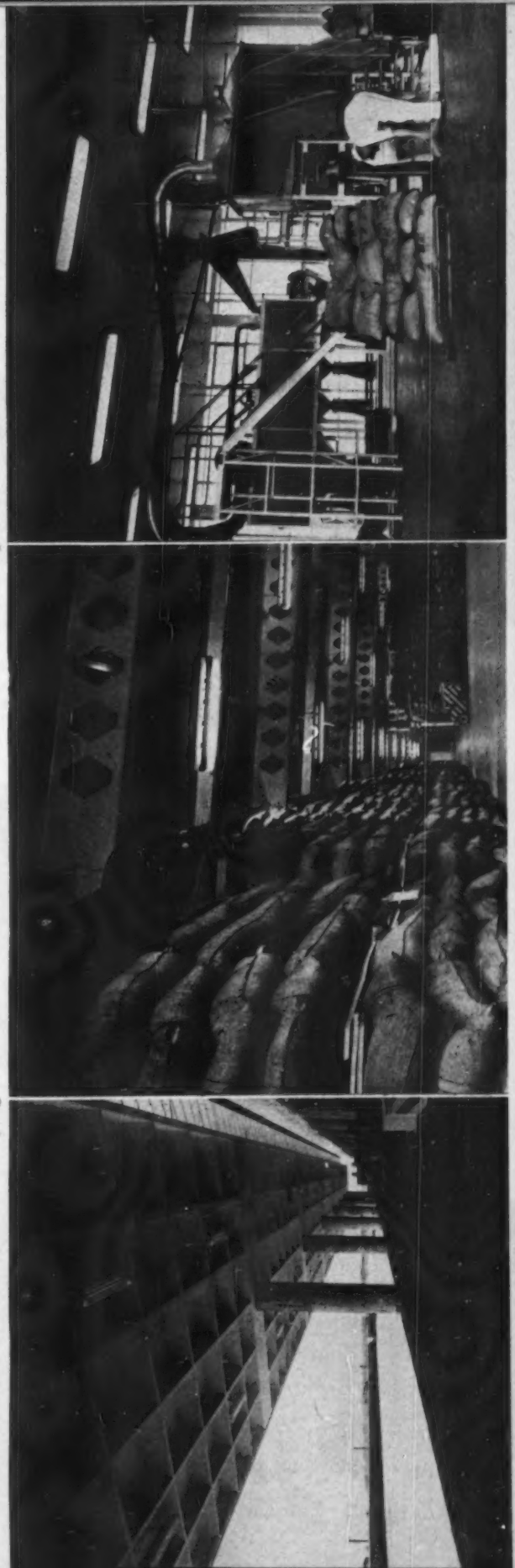
MEZZANINE FLOOR EXTRACT DUCT AND STEEL SLEEVES THROUGH VOID



THE PRODUCTION LINE

To see this factory layout as a whole we must take wing—only here can a series of parts be related with the eye. Here, too, we see a simple and efficient production diagram (page 540) in living form. Now follow the production line on a "best-seller", one of the 57 varieties, beans in tomato sauce. 1. The unloading platform and canopy. 2. Sacks of beans in the raw materials store. 3. A first step in the production area: the beans start their flow towards the can. First the sorting process, and on to be cooked and (on page 548) final checking before falling through chute and hopper to the lower production floor. Sections above show typical detail to the "sleeves" which pierce production floors to give flexible and hygienic vertical flow. Aerial photo: Airviews (M/C/R) Limited

1 2





## THE HEINZ FACTORY

### Consultants:

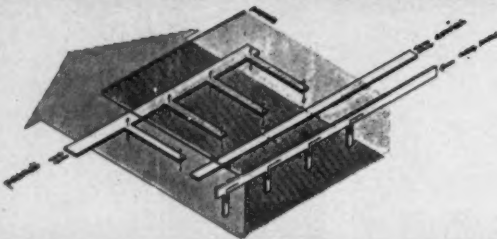
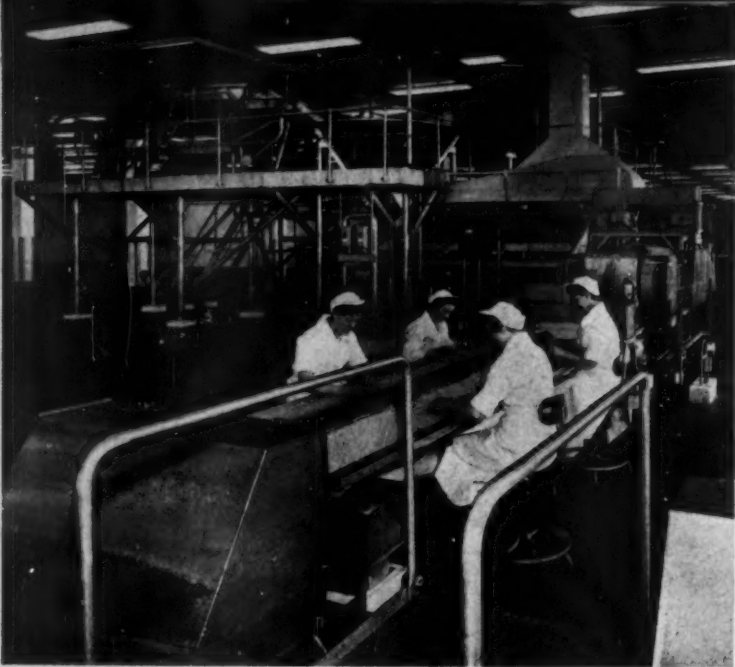
Consulting Structural Engineer, General Works: A. C. Aston, Quantity Surveyor: A. Boxall & Partners. Mechanical and Electrical Consultant: G. H. Buckle & Partners. Consulting Structural Engineer: R. T. James & Partners. Consulting Structural Engineer, Ramps, Loading Platform and Road Bridges: Kaylor & Pick. Soil Analysts: La Grand, Sutcliffe & Gell Ltd. Consulting Structural Engineer, Personnel Bridge: Niels Lisborg. Representative for Furnishings and Fabrics: Sheila Nicholson. Consultant on Sports Field and Landscaping: Sports Turf Research Institute. Consultant on Drainage Effluent Disposal and Water Cooling Plant: John Taylor & Sons.

### General Contractor:

A. W. MONK & CO. LTD.

### Sub-contractors and suppliers:

Asphalter—Waterproof Membranes: Neuchatel Anticorrosion Co. Ltd.; Tanking and S.B. Roofing: Neuchatel Aspalte Co. Ltd. Auxiliary Equipment—Internal Tube Communication: Lamson Engineering Co. Ltd.; Telephones, Loudspeakers, Clocks, etc.: Sieman, Edison Swan. Boiler Installation: Babcock & Wilcox Ltd. Bricklayer—Facing Bricks: The Accrington Brick Co.; Lathom Brick Co. Ltd.; Glazed Block Partitions: Leeds Fireclay Ltd.; Building Blocks: Lignasite (North Eastern) Ltd.; Sandlime Bricks: M. McCarthy & Sons Ltd.; Black Coping Stones: Shaws Glazed Brick Co.; Lightweight Building Blocks: Thermalite Ltd. Carpenter and Joiner—Plywood for Concrete Shuttering: J. Holt & Son (Plywood) Ltd.; Joinery E.S.B.: Walter Lawrence Ltd.; Laboratory Equipment, inc. services: W. E. Marson & Co.; Timber for Concrete Shuttering: David Roberts, Sons & Co. (Boole) Ltd.; General Joinery, Doors, etc.: Super Wood Products Ltd.; Tinsmiths: Tyson (Contractors) Ltd.; Ceilings—Upper Production Floor Ceiling: Anderson Construction Co. Ltd.; Ceiling Suspension Production Building: Campbell Denis Ltd.; Pre-cast Plaster Ceiling E.S.B.: Clark & Fenn Ltd.; Pre-cast Plaster Ceiling, Production Building: Petradene Ltd.; Ceiling Suspension in E.S.B.: Steel Bracketing & Lathing Co. Ltd.; Hardboard Ceilings: Tentest Fibre Board Co. Ltd.; Plastering Materials: Warrington Slate Co. Ltd.; Tinsmiths: Limestone Aggregates: Richard Briggs & Sons Ltd.; Concrete Plasticisers and Waterproofers: Chemical Building Products Ltd.; Mersey Sand: William Cooper & Sons Ltd.; Expansion Jointing Materials: Expandite Ltd.; Gravel Aggregates: Hulland Gravel Co. Ltd.; Cement: Ribblesdale Cement Ltd. Demountable Partitions—Steel Partitions Generally: Roneo Ltd.; Holoplast Partitions: Holoplast Ltd.; W.C. Partitions: Wm. Mallinson & Sons Ltd.; W.C. Partitions, Production Building: Warrington Slate Co. Ltd.; Drainage Layer—Drainage Goods: Warrington Slate Co. Ltd. Electrical Engineers: Barlow & Young Ltd.; Electrical Switchgear: Brush Electrical Engineering Co. Ltd.; Electrical Control Gear: Watford Electrical & Manufacturing Co. Ltd. External Works—Establishment of Sports Field: Bees Ltd.; Landscaping: Clapham Nurseries Ltd.; Security Fencing: Peerless Fencing & Products Ltd.; Weighbridge Equipment: Henry Poolley & Sons. Ironmongery: Crompton and Miscellaneous Steelwork—E.S.B. Eaves Trim and Canteen Louvre Frames: Aluminium Alloy Fabrications Ltd.; Sliding Doors, E.S.B.: Bolton Gate Co.; Staircase and Special Sheet Metal Work: Frederick Braby & Co.; Metal Shelving, Q.C.D.: Constructors Ltd.; Metal Shelving, Miscellaneous: Beantalk Shelving Ltd.; E.S.B. Staff Entrance, Glazed Screen and Special Grilles: Cullford Art Metal; Duct Covers: Dove Engineering Works Ltd.; Lightning Conduits: W. J. Furse & Co.; Wire Lockers: G. A. Harvey & Co. Ltd.; Sliding Door Gear: E. Hill Aldam; Rigid Column Guards, Warehouse: Huntley & Sparks Ltd.; Internal Guard Rails: Light Steelwork (1925) Ltd.; Fire Doors: Mather & Platt Ltd.; Hoist Blocks: Herbert Morris Ltd.; Ironmongery and Door Furniture: Quiggin Bros.; Fixing Devices: The Rawplug Co. Ltd.; Strongroom Door: Raiser Safe Co. Ltd.; Column Guards in Production Area, External Guard Rails, Miscellaneous Steelwork: Staveley Ltd.; Kitchen Equipment: Falkirk Iron Co. Ltd.; Cold Stores in E.S.B.: Prestcold Refrigeration Ltd.; Lifts—Light Goods Lift: London Lift Co.; Heavy Goods Lift: Otis Elevator Co. Metal Windows—Special Windows: Luxfer Ltd.; Metal Windows: Williams & Williams Ltd. Mechanical and Ventilating Engineer—Z. D. Berry & Sons Ltd.; Painter—Tretoplast Application to Ceilings: Export Packing Services Ltd.; Painting and Decorating: G. A. Harvey & Son (Warrington) Ltd.; Fairfaced Concrete Treatment: Gunac; Paint Supplier: Screenshot Paintmaker Ltd.; Tretoplast Manufacturers: Tretol Ltd. Pavior and Floor Finishes—Construction of Waterproof Brick Pavior Floors: Acalor Ltd.; Supply of Brick Paviors: Accrington Brick Co.; P.V.C. Floors in Q.C.D.: British Dolomont Ltd.; Hardwood Floors in E.S.B., Semaatic Floors in E.S.B.: Horsley Smith & Co. (Haves) Ltd.; Linoleum Floors in E.S.B., Korkoid Decorative Floors: Linoleum Floors Generally: Semtex Ltd. Pile Driver—Piling: Franki Pile Co. Ltd. Plumber and Sanitary Engineer—Sanitary Fittings: Wm. E. Farrer Ltd.; Plumbing and Glazing Materials: Samuel Greatrix Ltd.; Pitch Fibre Drainpipes: The Key Engineering Co. Ltd.; Cast Iron Pipes: Staveley Iron & Chemical Co. Ltd.; Incinerators: Sugg & Co. Ltd. Pre-cast Floors—Pre-cast Concrete Floors: Pierhead Ltd. Roofs—Warehouse Canopy Glazing: Corroplex Ltd.; Waterproofed Metal Deck Roofing Generally: Robertson Thain Ltd.; Felt Roofing in E.S.B.: Val de Travers Asphalt Paving Co. Ltd. Scaffolding—Tubular Scaffolding: Mills Scaffold Co. Ltd. Signwriter—External Signs: The Franco-British Electrical Co. Ltd.; Internal Signs: Drakard & Humble Ltd. Structural Steelwork and Reinforcement—Fabric Reinforcement: G.K.N. Reinforcements Ltd.; All Structural Steelwork: Pearson & Co. Ltd.; Reinforcement Steel: Whitehead Iron & Steel Co. Ltd. Wall Cladding—External Loured Panels Generally: Colt Ventilation Ltd.; Wall Cladding to E.S.B. Plant Room: W. H. Heywood Ltd.; Curtain Wall to Production Building: Holoplast Ltd.; Curtain Wall Clearing Cradle: Palmers Travelling Cradle & Scaffolding Co.; Vertical Patent Glazing to Can Factory and Cooling Water Plant: Williams & Williams Ltd. Wall Tiling and Finishing—E.S.B. Marble Wall Facings, Terrazzo Floors and Staircases: Art Pavements & Decorations Ltd.; Floor Tiling, E.S.B.: Carter & Co. Ltd.; Glazed Wall Tiling: W. B. Simpson & Co. Ltd. Water Treatment and Waste Disposal—Water Cooling Plant: Guest & Chrimmes; Effluent Disposal Equipment: Lea Recorder Co. Ltd.; Water Treatment: Permutit Co. Ltd.; Water Cooling Plant: Visco Engineering Co. Ltd.; Trade Effluent Screens: Longwood Engineering Co.; Conveyors and Hoppers: Frederick Braby & Co.; Comminutor: Jones & Ackwood; Mechanical Equipment, Water Cooling Plant: Worthington Simpson. Water Chlorination Plant: Wallace & Tiernan Ltd.

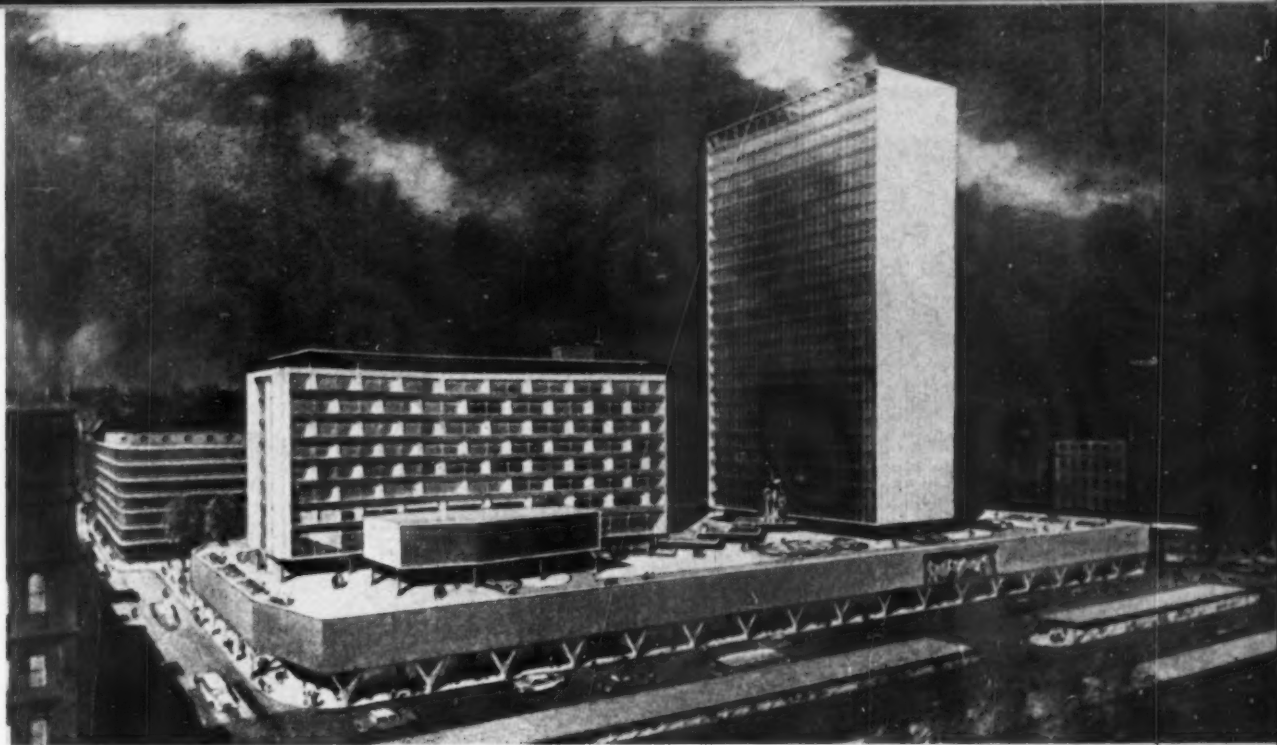


Continued from the  
previous page.

4. Checking.
5. Beans, tomato sauce, and cans come together before sterilization and
6. Final packaging



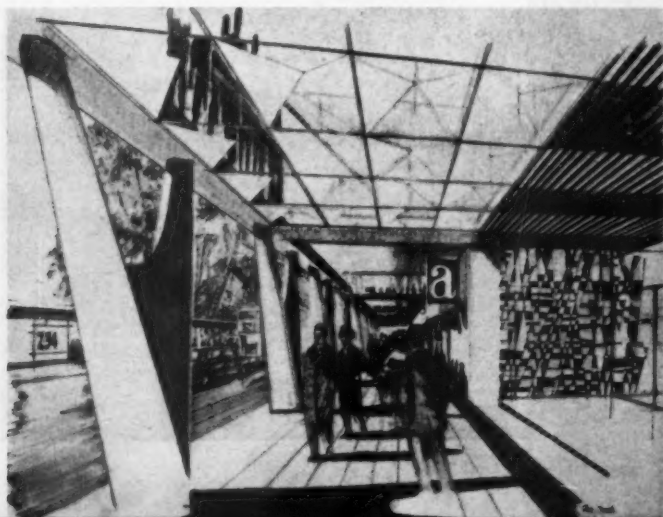
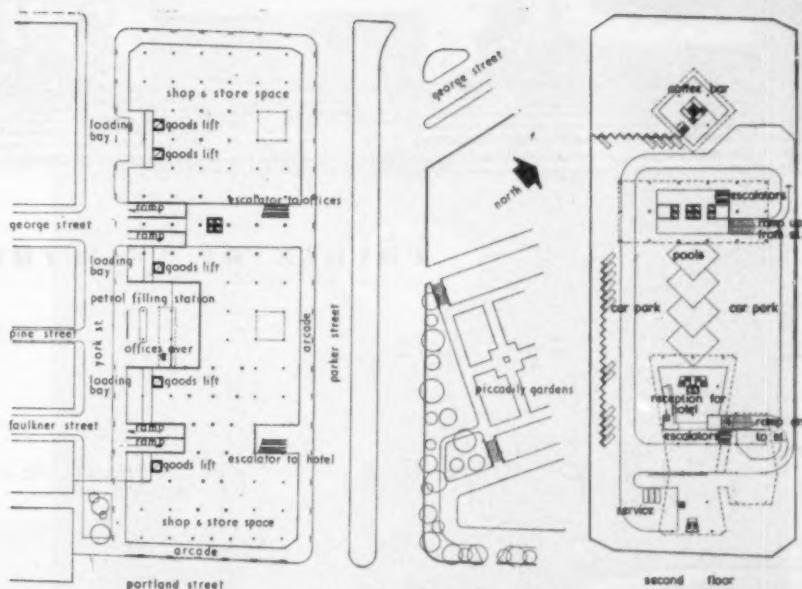




## "HIGH PICCADILLY" FOR MANCHESTER

ONE of the most ambitious commercial projects to be launched since the war is planned for a central site in Piccadilly, Manchester. The scheme is a comprehensive development, embracing shops, offices, hotel, garage, and car parks, for which the estimated cost is £3,637,000. The site has been made available at a nominal rent for a limited period of 18 months, and, in the contract organization, unconventional methods will be adopted to secure ultra-rapid construction to complete the project in this time limit, i.e., early in 1961. The ground floor is planned as an under-cover shopping ambulatory, protected by an overhang of the first-floor showrooms. The second floor is an elevated 'open space' with ornamental pools on which the hotel and tower blocks of offices are raised.

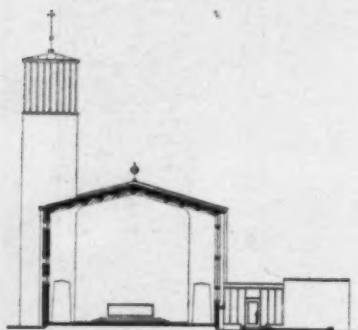
Architects: Covell & Matthews. Assistant in Charge: B. G. Falk. Assistant Architect: P. J. Stubbings. Perspectives by A. H. E. Shearing and C. Hough. Consulting Engineers: Leonard and Grant.





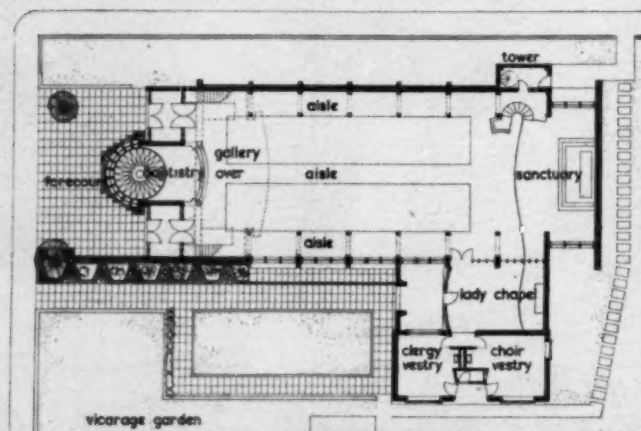
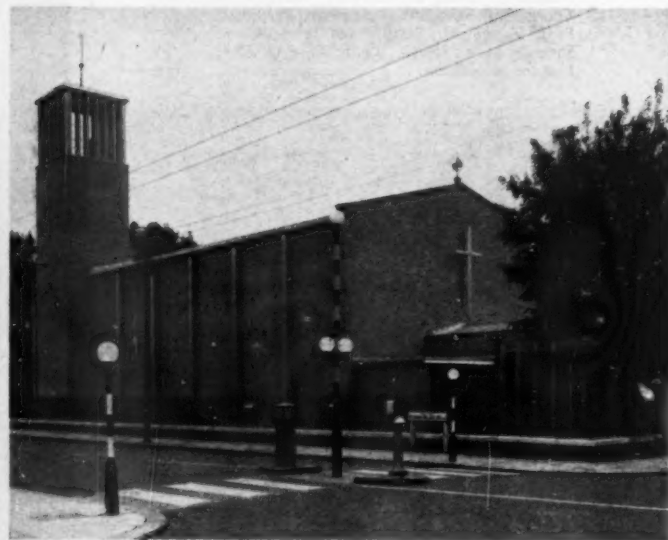
## CHURCH OF ST. ETHELDREDA, FULHAM

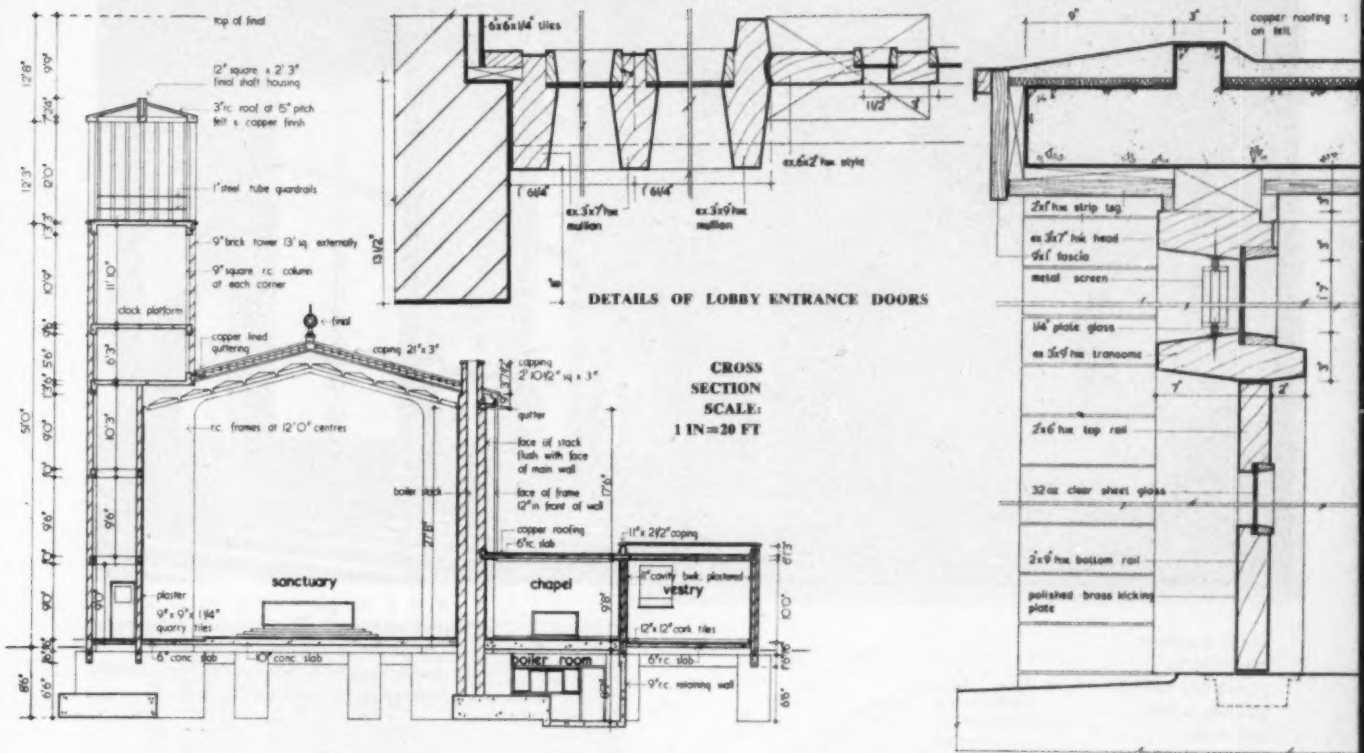
Architect: GUY BISCOE  
Assistant in Charge: NIGEL WIKLEY



PLAN AND CROSS SECTION SCALE: 1 IN=40 FT

*To offset noise the church presents a blank face to the Fulham Palace Road*





A night view from the forecourt—doors detailed above

THE problem confronting the architect was to design a church to replace the Victorian one which was destroyed by enemy action and to fulfil a number of requirements. These included the provision of seating for a congregation of 350, the minimization of traffic noise, and the incorporation of some token resemblance to the old church.

#### Design

The plan resolved itself into an L-shape building with the body of the church parallel to the Fulham Palace Road. To offset traffic noise, most of the windows look out on to a vicarage garden and the only window on the street side is that to the sanctuary. This left an expanse of blank wall facing Fulham Palace Road, but this is relieved by a number of cruciform-shaped lenses which—particularly at night—produce an attractive and unusual effect.

#### The Interior

Rather than have the font standing in the west end of the nave, a baptistry was designed to give the baptist service greater prominence and to allow some scope for stained glass. Thus the baptistry now projects beyond the west wall of the nave with a semicircular end containing the eleven stained-glass windows designed by W. C. Carter-Shapland. Three steps lead down from the nave, and the font itself stands



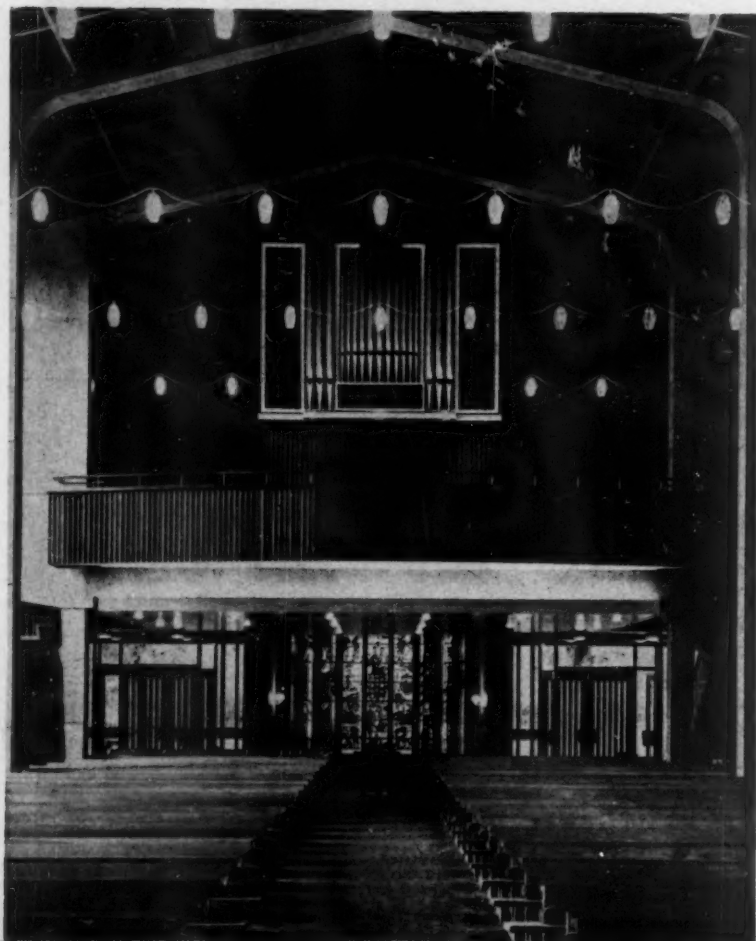




*A wall of glass faces on to garden and vicarage. The reredos, a figure of Christ on the Cross, is carved in oak and executed by Miss Rita Ling. Below, looking back towards the font*

## CHURCH OF ST. ETHELDREDA

*Continued from page 551*



on a circular dais in which is incorporated a large glass mosaic star symbolic of baptism. The font is formed by a hammered copper bowl suspended between tapered mahogany legs.

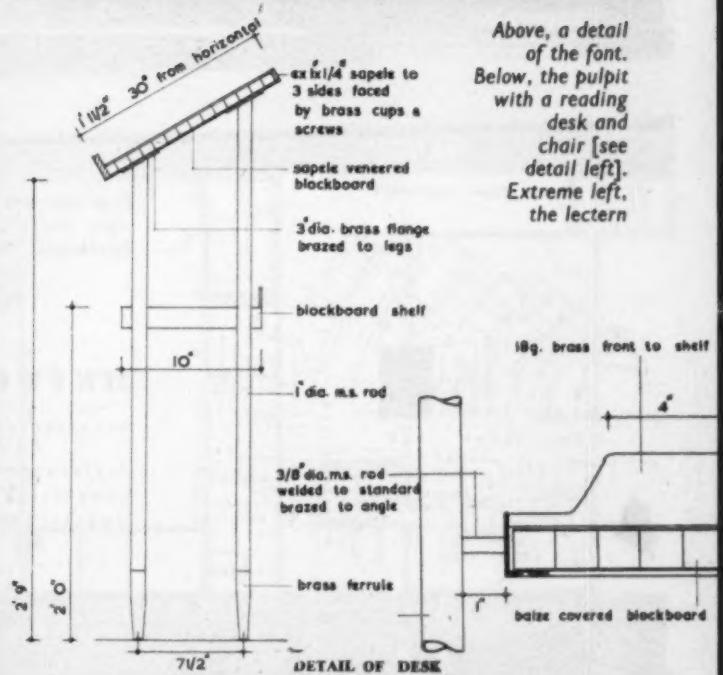
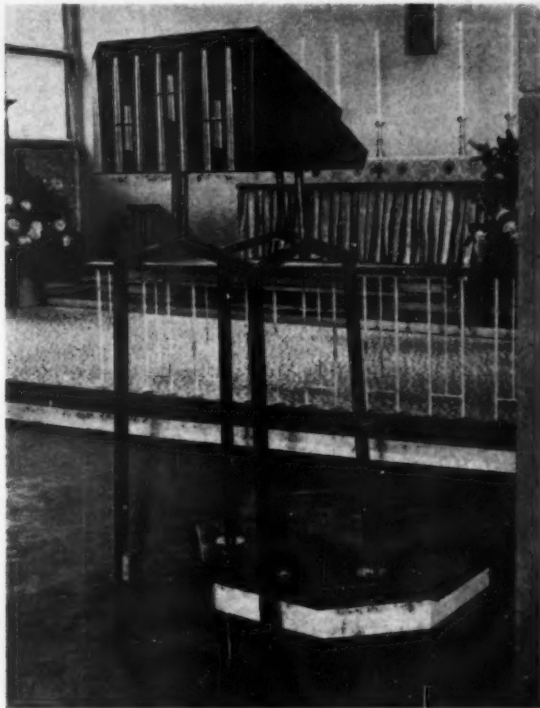
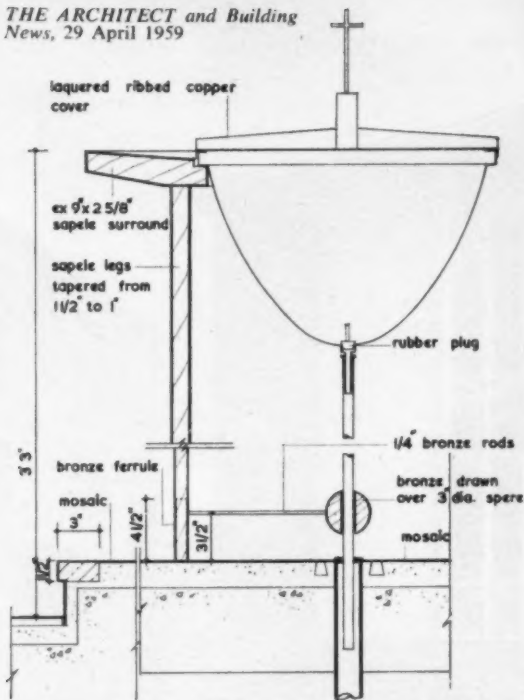
The chapel is separated from the nave only by the parclose, which is glazed down to the floor so that the high altar and chapel altar are not visually separated; this conception is strengthened by the communion rail step which, in two gentle curves, starts in the chapel, continues through the parclose across the sanctuary and at the north end turns up and round to form the steps to the pulpit.

A gallery front follows the same curve as the communion rail step and at the centre projects an "opera box" for the console and organist's bench.

In designing the furnishings it has been the architect's purpose to make a new approach, the common denominator being apparent lightness. For this reason neither the pulpit, font, lectern or priest's chair have solid bases.

The need for some cost reduction resulted in the omission of a peal of bells, but a single bell, salvaged from the old church, and which originally came from the city church of St. Michael, Bassishaw, cast at White-chapel Foundry in 1679, has been installed in the belfry.



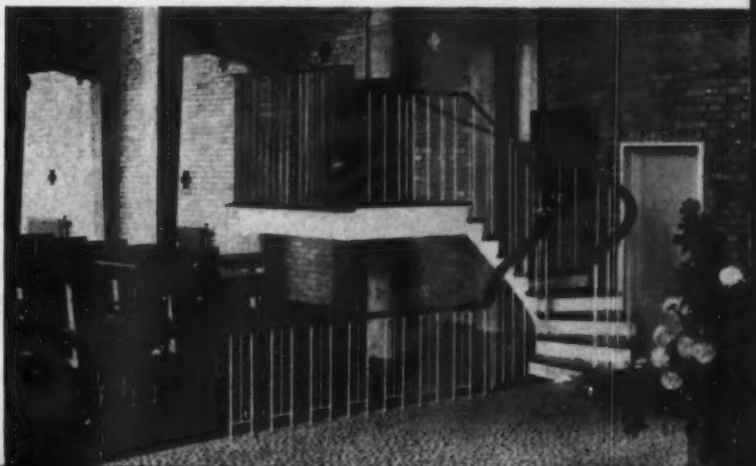


Above, a detail of the font.  
Below, the pulpit with a reading desk and chair [see detail left].  
Extreme left, the lectern

Contractors: WARD AND PATERSON LTD

**Sub-contractors and suppliers:**

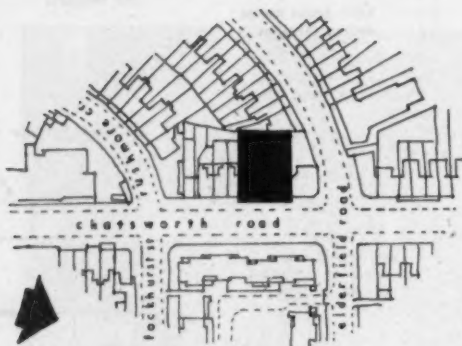
Aluminium Roofing, Aluminium Clad Crosses and Font: Fredk. Braby & Co. Ltd. Bell Installation: Mears & Stainbank. Ceramic Mosaic Wall Tiling: Carter & Co. London Ltd. Cork Flooring: The Marbolith Flooring Co. Ltd. Electrical Installation: Leaf & Carver Ltd. Facing and Paving Bricks: S. A. Hunter Ltd. Fibrous Plaster: Plaster Decoration Co. Ltd. Flooring: Granwood Flooring Co. Ltd. Heating: Wontner-Smith Gray & Co. Ltd. Ironmongery: A. J. Binns Ltd. Lightning Conductor: J. W. Gray & Son Ltd. Light Fittings: Fredk. Thomas & Co. Ltd. Merchant Adventurers London Ltd. Troughton & Young Ltd. Metal Windows: The Crittall Manufacturing Co. Ltd. Organ: N. P. Mander Ltd. Paint: Hadfields (Merton) Ltd. Pews and Altars: E. G. Pitcher Ltd. Reinforced Concrete Work: The London Ferro-Concrete Co. Ltd. Roof Decking: Seramit Ltd. Tinted Plate Glass, Cruciform Lights: Goddard & Gibbs. Vitreous Mosaic: Zanelli (London) Ltd.





Photos: COLIN WESTWOOD

East elevation from Chatsworth Road. The church hall entrance is on the right, and left, is the church entrance under a panel of cruciform patterned brickwork. Below, the church, looking toward the curtained vestibule



## METHODIST CHURCH, CLAPTON

Architects: PAUL MAUGER, GAVIN, MATHERS AND MITCHELL  
 Assistant: BRIAN HODGKINSON  
 Consulting Engineers: R. T. JAMES AND PARTNERS  
 Quantity Surveyors: C. E. BALL AND PARTNERS



THE site of this Methodist church at Chatsworth Road, Clapton, E.5, was rather small for the amount of accommodation required. Consequently the unusual solution to the problem has been to design the church at first-floor level above the church hall. The ground floor is sunk below pavement level to reduce the staircase flight up to first floor.

Independent entrances to the church hall had to be provided. Fixed tip-up seating, selected by the client, was required in the church, but "overflow" space is available in the vestibule by withdrawing a curtain separation. The "foundation stone" is actually blue-grey slate set flush in the vestibule floor. A caretaker's flat is planned at second-floor level.

### Structure and Materials

Brick load-bearing walls and *in situ* R.C. floors and beams. Roof over caretaker's flat is in timber.

Main elevation, harvest brown hand-made bricks, with dark grey hand-made on area wall and corner of main entrance. Side and rear elevations, "golden" flint facings. Rendering: Stonite. Main windows are metal in timber frames, with artificial stone surrounds and pre-cast concrete exposed aggregate slabs between heads and cills. Walls: plastered. Floors: thermoplastic tiles in the church, Granwood in church hall, main stairs, terrazzo. Chancel furniture: mahogany, designed mainly by architects.

### Heating

Oil-fired boiler supplying low-pressure hot water to radiators.

### Cost analysis

Total f.s. 13,600 (measured over external walls).

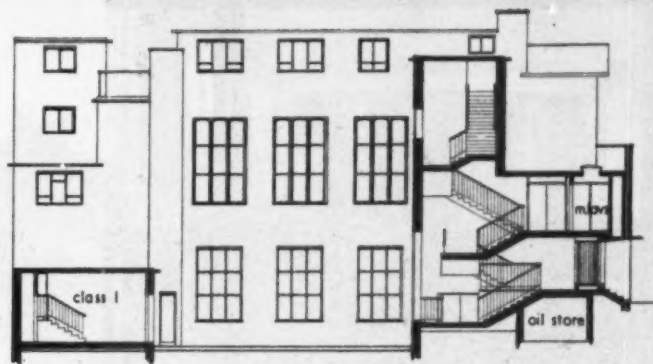
Item	Cost £	Cost per f.s. s d
Foundations .....	3,250	4 9½
Structure (inc. ext. works) .....	19,930	29 3½
Finishes .....	9,175	13 6
Artificial stone dressings .....	615	11
Church fittings .....	565	1 10
Heating installation .....	2,395	3 6½
Electrical installation .....	1,285	1 10½
Plumbing and drainage .....	1,785	2 7½

Approx. totals £39,000 58 4½

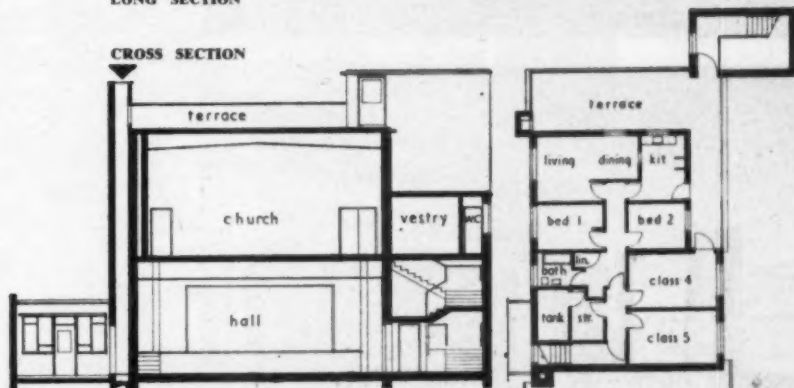
### Contract

R.I.B.A. with quantities. Competitive tenders. All ½ in scale working drawings were sent to all tenderers.

P.C. and provisional sums were reduced to a minimum, i.e., 12 specialist firms of which three were heating, electrical and gas installations.

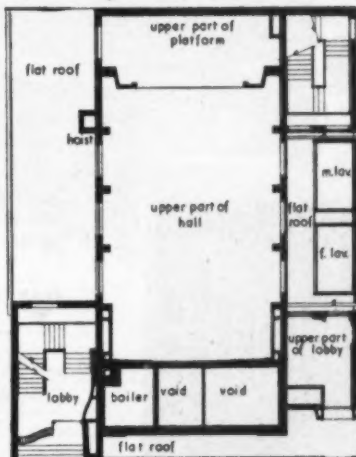


LONG SECTION

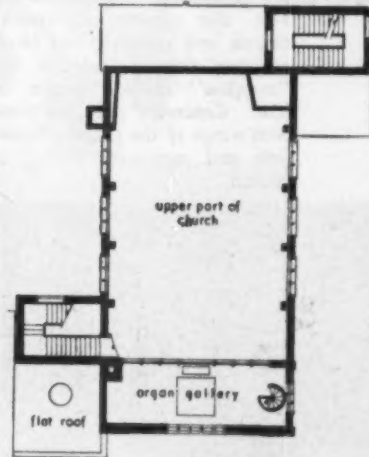


CROSS SECTION

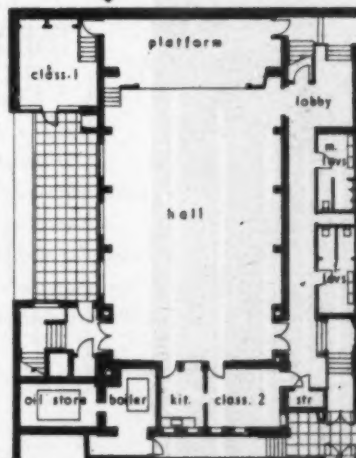
SCALE: 1 IN=32 FT



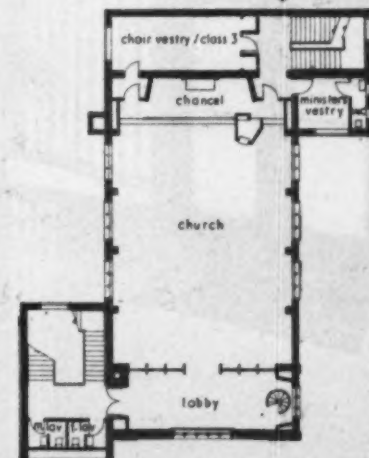
CHURCH ENTRANCE



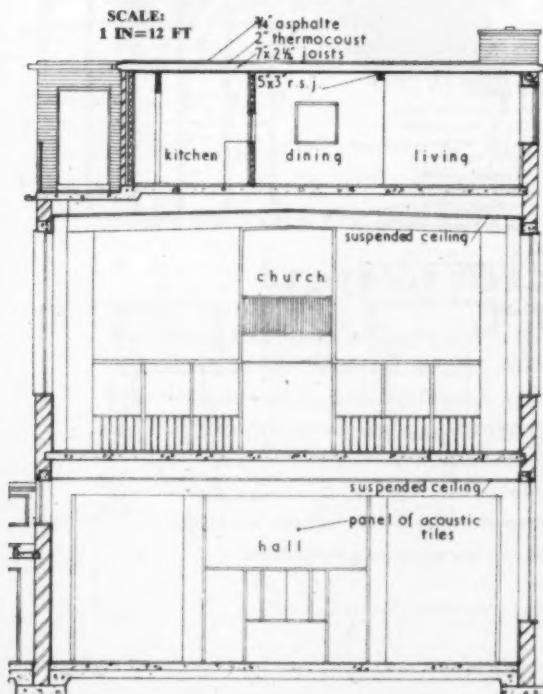
ORGAN GALLERY



LOWER GROUND



UPPER GROUND



SCALE: 1 IN=12 FT



## CHURCH AT CLAPTON

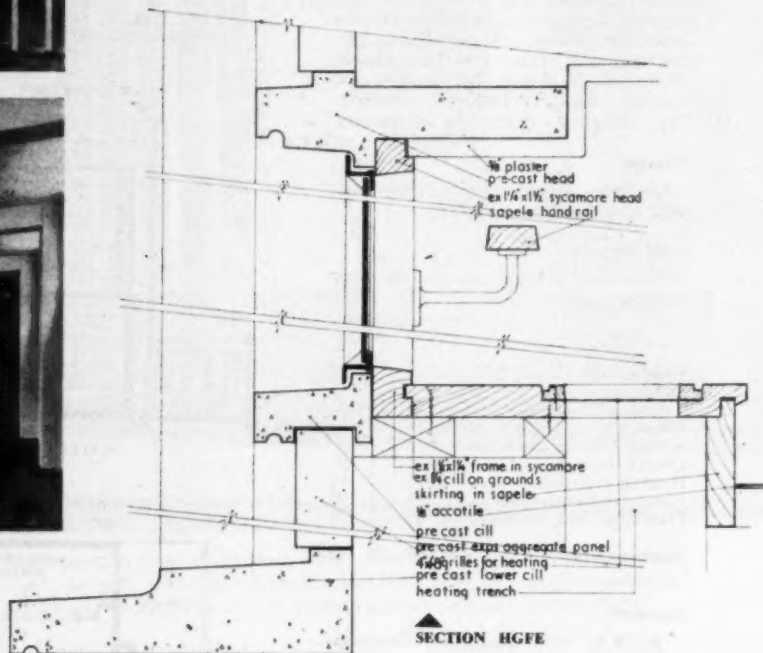
General Contractors: H. T. SWAFFER LIMITED

Sub-contractors and suppliers:

Asphalt Roofing: The Excel Asphalts Co. Ltd. Dustbin Hoist: Hammond & Champness Ltd. Electrical Installation: The General Electric Maintenance Co. Foundation Stones: Bow Slate & Enamel Co. Ltd.; E. J. & A. T. Bradford Ltd. Gas Installation: The North Thames Gas Board. Heating Installation: Norris Warming Co. Ltd. Ironmongery: H. & C. Davies & Co. Ltd. Locks: Humphrey & J. Fox. Metal Windows: The Monk Metal Window Co. Ltd. Sanitary Fittings: John Bolding & Sons Ltd. Suspended Ceilings: G. S. Horsburgh & Co. Ltd. Thermoplastic Handrail: The Marley Tile Co. Ltd.

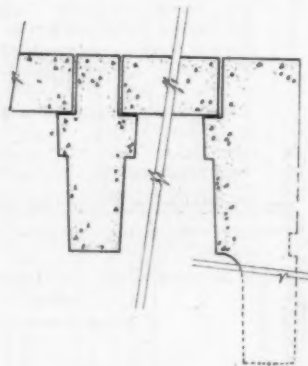
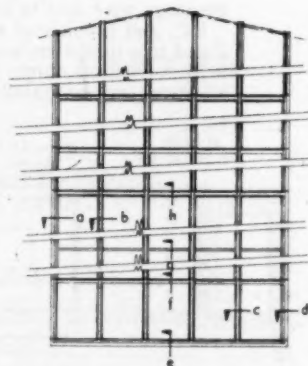
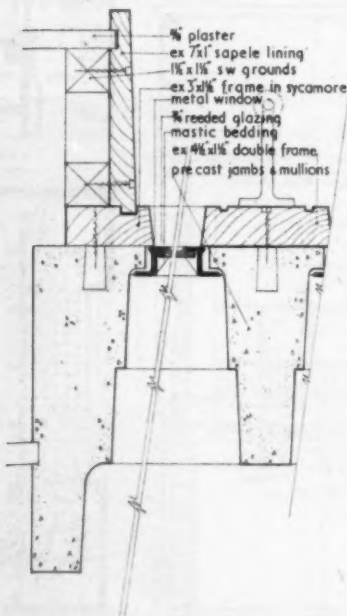


Top, the curtain separation between church and vestibule can be withdrawn, enabling the vestibule to be used as "overflow" space. Centre, the church hall. Concealed exits are provided from both wings of the stage. Below, entrance hall and staircase leading up to the church



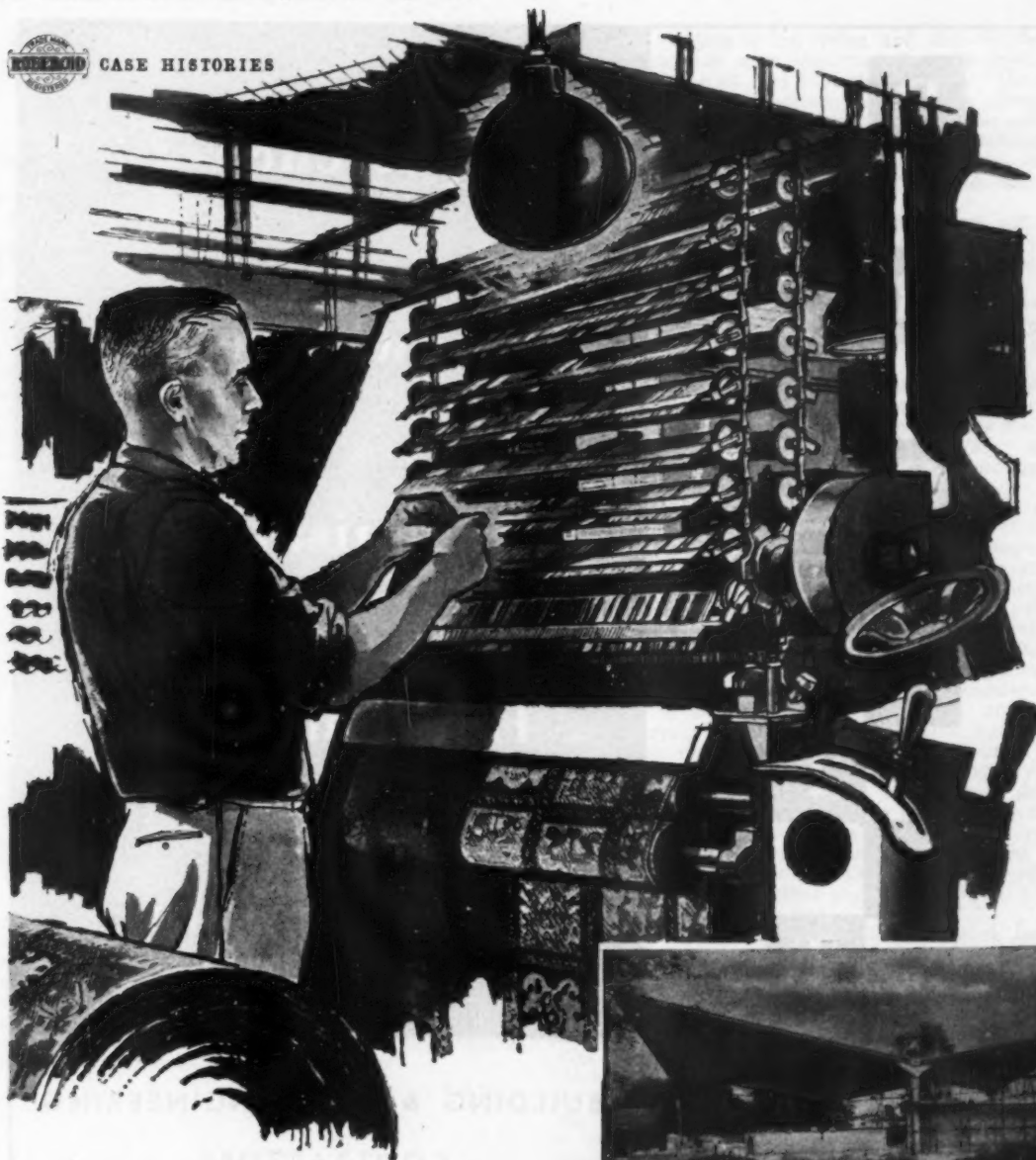
DETAIL OF  
CHURCH WINDOW  
SCALE: 1/6 F.S.

PLAN ABCD





CASE HISTORIES

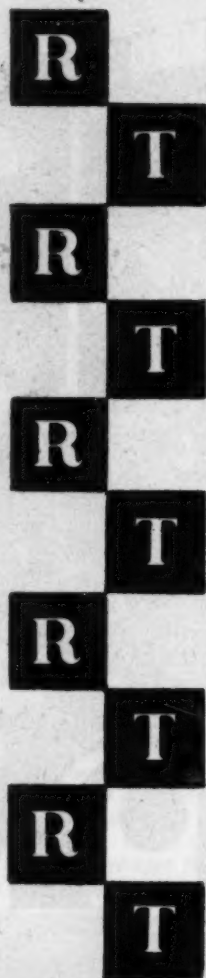


## Roll out the carpet for hyperbolic paraboloid!

Much architectural interest is being focused on the unusual roof designed by Architect Mr. Robert Townsend, F.R.I.B.A., for The Wilton Royal Carpet Factory Limited, using a Ruberoid Built-Up Roof with a mineral surfaced Capsheet. First roof of its kind to be erected in this country, first and only roof ever to be built in timber on the multiple hyperbolic parabola principle, and a great triumph for its adventurous designer, for using a basically simple geometrical principle to such good effect.

*The roof consists of four panels of hyperbolic paraboloid shells, each 57 ft. 5 in. square, supported independently by a concrete column at the mid-point of each side and weatherproofed with Ruberoid Built-Up Roofing.*

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## LIBRARY NOTES

**The Contemporary Curtain Wall**

by William Dudley Hunt, Jr. F. W. Dodge Corporation, New York. Price \$12.75 or 92s.

THE curtain wall is now established as part of the vocabulary of the modern architect. In almost every country of the world curtain walled structures are appearing, tall ones, short ones, good ones, bad ones. Unfortunately, more of the latter than the former; for to clad a building in this way seems so easy, and yet often proves to be so difficult. For some time it has been obvious that a book ought to be written on the subject, and it is appropriate that this present volume, the first comprehensive study of the subject, should come from America, the birthplace of the modern curtain wall. And yet, this is not really the book needed by English architects and students on the subject. Its author, William Dudley Hunt, Jr., is a practising architect and architectural journalist, having been a senior editor of *Architectural Record* since 1958. The book has ten chapters and a large appendix which includes not only a very complete American bibliography but also an exhaustive list filling ten pages giving details of all the major curtain wall buildings in the U.S.A. Mr. Hunt deals with all types of light cladding currently in use in America; with one notable exception, no mention is made of timber as a curtain wall material or infilling panel, and this omission is surprising, as one of the most successful timber curtain wall jobs is the McKay physics building at Harvard. The text and illustrations deal with the well-known problems and suggests that American architects have been concerned with the same range of troubles as we have in England; the general text is supported by an impressive mass of tabulated and diagrammatic information.

The serious shortcoming which limits the book's use to English architects is the fact that the author is concerned solely with American practice and as many of the systems described and illustrated are American patents, their use in this country is unlikely. No reference is made to continental or English examples. The book is therefore of use mainly as a guide to the theories of curtain wall techniques and the information concerning the practical application of these theories to our conditions and requirements must be sought elsewhere.

EDWARD D. MILLS.

**Buildings in the Country**

By Paul Mauger. B. T. Batsford Ltd. 70s.

WHAT an important subject and yet what a complete lack of books on it! If the importance of the subject is big, the problem is even bigger and it has, in practice, overwhelmed us so completely that the result is quite simply ugliness everywhere. Now we know the historical reason for this and the position at the beginning of this century has been well summarized by a leading authority, Lady Bracknell: "... land has ceased to be either a profit or a pleasure. It gives one position, and prevents one from keeping it up. That's all that can be said about land."

Since Lady Bracknell's time, however, three big things have happened, two of them wars and the third, cars; all three made the forgotten countryside remembered again. Food growing apart, though, you would think that even as a pretty backcloth to urban week-ending cars, the countryside is a flop and becoming daily less pretty. One of the main causes is, alas, building and quite a lot of this is done by us architects. Even worse

than our building is our siting and this, in the open landscape, is even more important than the good design of the building itself. As Paul Mauger says: "The quality of rural architecture depends mainly on its relevance to setting." Too many of us rely on what he calls "the incomparable background of the British landscape" to carry our mediocre buildings. Too soon, one fears, it will indeed be incomparable this background, with which the author opens his book.

He then plunges straight into chapter one and power stations, a clever touch, for this is the principal popular phobia, the public nightmare. The earlier power, gas, blighted the townscape as the later one, electricity, blights the landscape. The reason for this lack of success with power stations is that we have very little large-scale landscape at all in the British Isles, while buildings for power are usually large scale. The smaller scale of our man-made scenery demands smaller ventures, like the excellent proposal for Lochay by Robert Matthew. The bigger landscape of north Derbyshire can take the bigger stuff, such as Jellicoe's grandiose Hope Valley scheme. Exactly the same applies to industry; and here again the smaller-scale buildings tend to score.

The next chapter is on farming, the most ancient industry of all, our very life after the retreat of the ice, and of this Mauger says: "The resulting scenery is so pleasant that the townsman has to remind himself that farming is one of the functional arts." Yet new farm buildings are often some of the choicest outrages; decayed double-decker buses are often the birthplaces of those roast Norfolk chickens, pride of the London rotisseries.

Of housing, the author says: "Rural housing must have had a more widespread impact on it [the landscape] than any class of buildings." It must indeed, and on the kind of impact I prefer to be silent. Housing is a most difficult job, though this is no excuse for doing it badly; but housing in the landscape does get so tangled up with tradition and emotion that it is far easier to design a hospital, a school or a factory where no prejudices hamper the designer or his client. But a house, it is said, must be like a house and even, as one client recently said to me, "a brick isn't a brick unless it's red". It is a pity that everyone seems also to think a village hall is not a village hall unless it is a Nissen hut.

The writer of this book has done his work conscientiously, modestly and well. Conscientiously he has travelled the whole country in search of good design, and God knows that was no easy assignment. Modestly, because he does not write grandly, in purple but meaningless passages. Well, because the book has a solid yet sensitive quality, exactly right for his subject, the English countryside. I cannot pretend that I thought the examples illustrated were all good, but for that, one can hardly blame the author and I would like, indeed, to have seen included some pointedly bad buildings for the benefit of all concerned.

In his first chapter, the author quotes Horace Walpole, writing in 1785: "If no lapse to barbarism, formality and seclusion is made, what landscapes will dignify every quarter of our island when the daily plantations that are making have attained venerable maturity!"

We have enjoyed that venerable maturity as Walpole never could, but look at the ugliness, at the endless tide of rural rubbish and dare to say that no lapse to barbarism has been made.

HERBERT TAYLER.

**Plumbing Materials and Techniques**

by Sydney Webster. B. T. Batsford Ltd. 30s.

A MODERN building must fulfil many conditions, apart from its structure, if it is to assist in accommodating a healthy population. It should be well lighted, ventilated, drained, and—possibly above all—be equipped with well-planned systems of sanitation, plumbing and heating.

The last century has seen continuous progress in the

## LIBRARY NOTES continued

development of man's comforts. During recent years, in the field of plumbing particularly, the introduction of many new materials and the advanced development of traditional ones have provided architects and plumbers with a bewildering choice. These numerous materials and modern requirements have emphasized the need for a book dealing, in a systematic manner, with the subject of plumbing materials.

"Plumbing Materials and Techniques" contains comprehensive memoranda covering all points essential for a thorough understanding of the wide range of materials, their application, and individual limitations in modern plumbing design. The subject matter has been covered within two main parts, i.e., Part I covers all the materials in general use today, both pipe and sheet, from lead to Polythene. Part II deals with the various techniques used in the application of these materials to suit practical requirements for domestic hot water and heating installations, sanitation, protective coverings and water supply.

The presentation is good, the data comprehensive, and the author is to be commended on the quality of the many illustrations.

Although primarily intended as a reference book for architects and plumbers, this book, with its wealth of information, should prove of considerable interest and assistance to all who are interested in modern plumbing design.

R. HARRINGTON.

### Architecture, Nineteenth and Twentieth Centuries. (Pelican History of Art)

by Henry-Russell Hitchcock. Penguin Books Ltd. 70s.

FRANK LLOYD WRIGHT has passed away, and death has at last ended the ebullient career which may almost be said to have been that of three architects in one. Wright's earlier days with Adler and Sullivan in Chicago were far enough back in America's architectural history to have been those of the earliest skyscrapers, and it was ironic that Wright did not himself build one till the last decade of his life of eighty-nine (not actually, pace Professor Hitchcock, of ninety) years. Wright was seldom far from the limelight, and fresh attention has naturally come to him on his death. For this reason alone Prof. Hitchcock's ambitious book is most welcome, for some of its most valuable passages deal at some length with Wright's extraordinary, in many ways influential, achievement. Indeed, in a book whose subject is so vast that its 427 text pages cannot do more than sweepingly survey the more significant architecture of its chosen period, Prof. Hitchcock gives us material of particular value when he deals, as he can do with great authority, with the buildings of his own North American continent.

A high proportion of what the western world built between 1800 and 1850 belonged to an older tradition of Renaissance or neo-classical culture which had little in common with the work of an increasingly industrial and more eclectically imitative age. Prof. Hitchcock's book is split into three parts which correspond, more or less, with the cultural subdivisions of his subject—neo-classic, "High Victorian", and "modern". It is of the most value for its treatment of the architectural styles and fancies which may be said, like the Greek Revival, romantic classicism, or Art Nouveau, to have worked themselves out. There is also valuable historical material on the early modernists and on the continuing traditionalism of Lutyens and his cultural equivalents elsewhere. But for the genuine moderns the story is inevitably incomplete, and despite the great value of what Prof. Hitchcock gives us on what has so far happened since 1945 it might have been better had the story been taken no further than

the outbreak of the second world war. Fuller treatment would thus have been possible for the enormous volume of nineteenth- and early twentieth-century building.

For readers in this country Prof. Hitchcock is specially revealing in what he says on the continental buildings, whether Second Empire Baroque or Viollet le Duc Gothic, which tourists often miss and are normally not invited to inspect. Our Victorians we know reasonably well; Prof. Hitchcock deals with them, though rather skimpily when he comes to Waterhouse, with some strange descriptive inaccuracies on Bodley's All Saints', Cambridge, and with no reference at all to Champneys. But he also shows us (such phenomena as Spanish neo-Moroccan excepted) much of what, simultaneously with our Victorians, was being built in continental Europe. Churches apart, the picture is much less Gothic than in Britain or the U.S.A., but one's impression, amid the Garniers and Sempers who so heavily encrusted the townscape of nineteenth-century Europe, is equally one of an artistic confusion and lack of taste very little redeemed by such two-dimensional urbanisms as the Boulevards, the Esedra, or the Ring. Moving on towards our own time, we find Prof. Hitchcock amply appreciative both of Mackintosh and Gaudi.

This latest volume in the ambitious Pelican History of Art is an important achievement by an author well qualified both by his past writings and by his happy ability to do justice to the New World as well as to the Old. Such verbal inelegancies as "primitivistic" and "Romanesquoid" are tiresome, but in time one gets acclimatized. The photographs and plans make up a most helpful selection and include a few small buildings like romantic cottages as well as the period's more monumental achievements. Of special interest are some, contemporary with the building of their subjects or nearly so, which remind us that the early skyscrapers were a part of the streetcar age, being built before automobiles existed, or at all events before they got out of hand.

BRYAN LITTLE.

### The Carver's Companion

by Peter Morton. A. & C. Black Ltd. 30s.

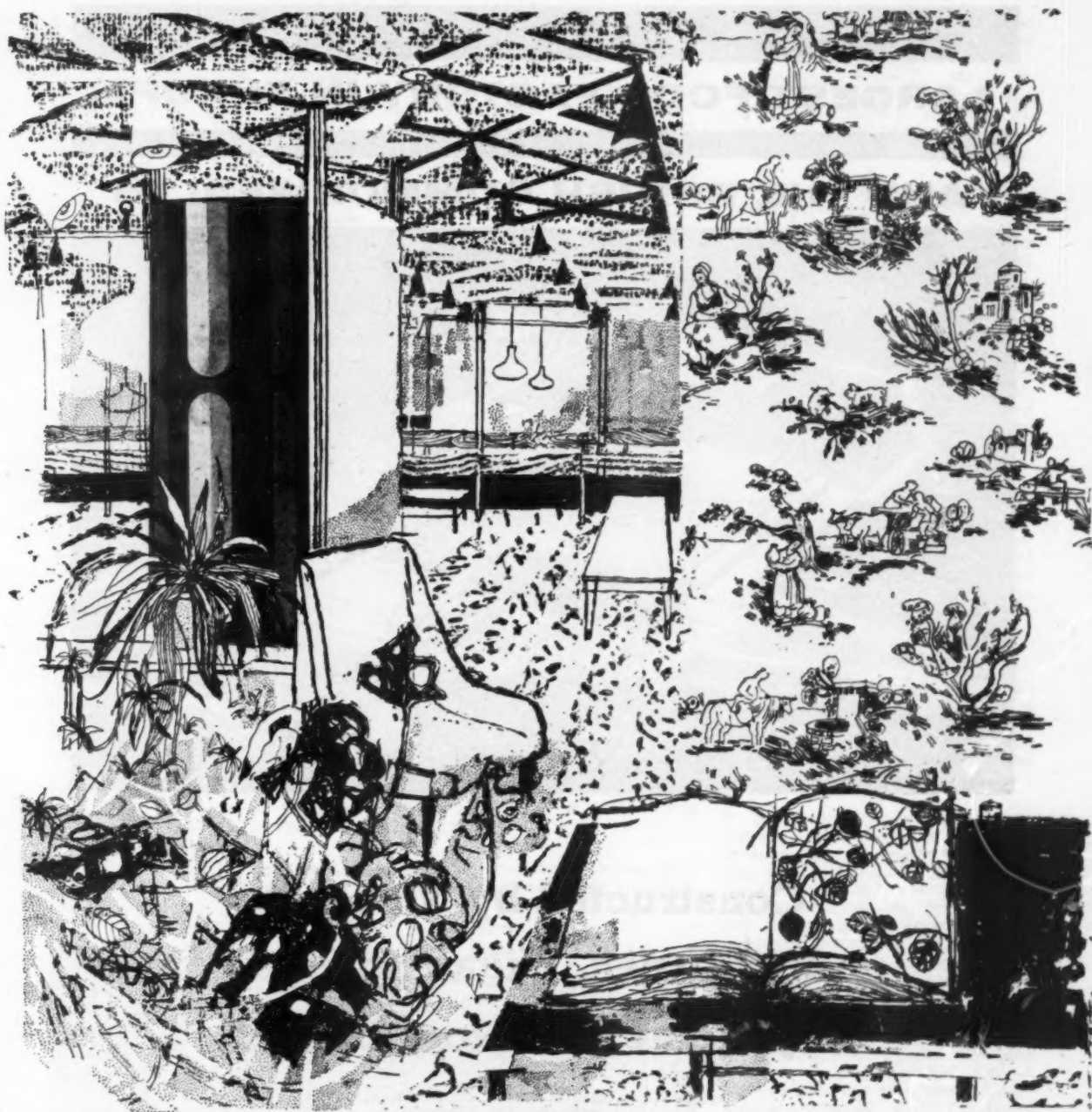
MR. MORTON'S book sets out to be a guide to carving in wood and stone. The text is unusually well written, lively and to the point, and the illustrations well chosen, although I confess that the one on the cover expresses the virtue of wood less than most. It is a slender volume, well printed and bound, and addresses itself fundamentally to the amateur or young apprentice. With its many illustrations, the price is not exorbitant. The chapters on wood carving will be found to be of more value than that on stone.

To my mind, the great periods of wood carving were South German and Flemish fifteenth-century work and the age of Grindling Gibbons. No mention is made of the former, and a word about African carving might well have been added.

Mr. Morton's crests at Sandhurst for the Indian Army Memorial and his "Glory" at Farnham are beautifully crisp and a lesson in themselves. He preaches learning by practice, and, if possible, in a wood-carver's shop rather than at an art school, and with this I agree. The fundamental development of any art arises from continual exercise. He has got a useful chapter on lettering which is much too often neglected, and a major element that enters into nearly all carving as distinct from sculpture.

Restorations since the war have given employment to the carvers, and allowed the training of more carvers than for recent generations. They have risen nobly to the task, and some of their work bears favourable comparison with the best of any age. The days of miles of carved cornices are probably gone, but many opportunities for memorials and the like will inevitably continue.

W. A. S. LLOYD.



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The Architects' Department, formerly at 125, High Holborn, W.C.1, has been reopened in the Company's new London premises at 19/21, Mortimer Street, W.1. You are invited to visit our spacious showroom on the First Floor and to make use of the improved facilities of our special advisory service. Our artist Jane Shannan depicts Haywards wallpaper "Jouy" No. 544 (right). Palladio Magnus "Digitus" (left).

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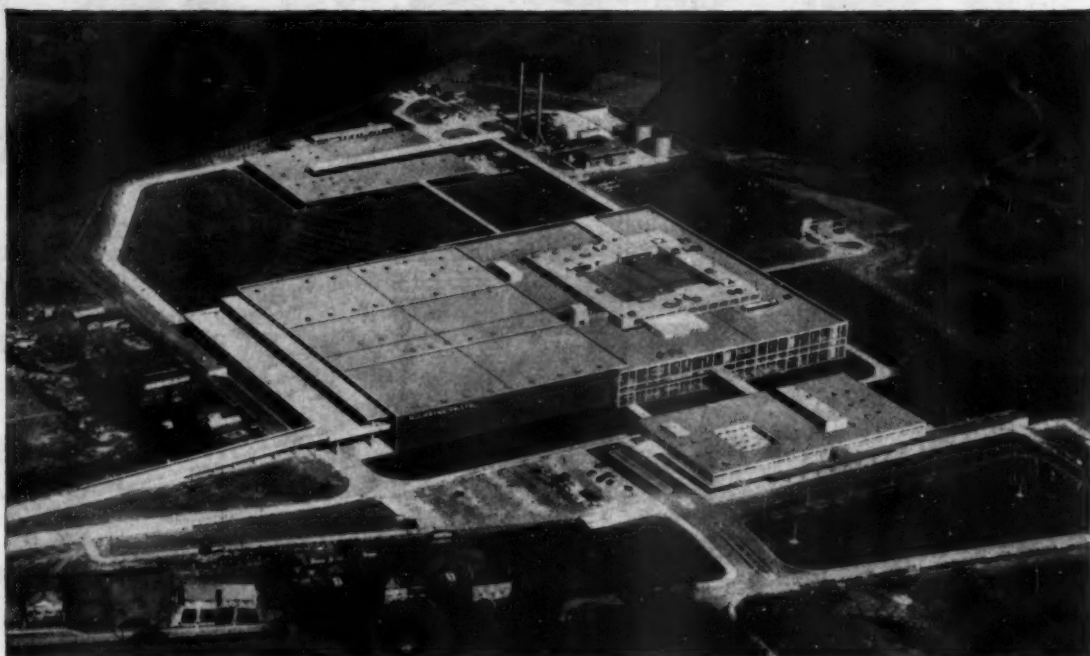
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## Industrial Notes

● "Sand and Gravel Production 1957-58" has been published for the Ministry of Works by H.M. Stationery Office, price 9d. Statistics of production show that 46.2 million cu yd of aggregate were produced in England and Wales during 1958, compared with 46.1 million cu yd in 1957. In Scotland, output fell slightly from 3.7 million cu yd in 1957 to 3.3 million cu yd in 1958. This year's report gives, for the first time, separate figures for the production of building sand, concreting sand and gravel.

● Mr. G. S. Steven, managing director of Allied Ironfounders Ltd., has been elected vice-chairman. Mr. H. C. Wilson Bennetts has been appointed managing director jointly with Mr. Steven. In addition, Messrs. G. F. Williams and C. W. Ferguson have been appointed directors.

● The Harland Engineering Co. Ltd. show a group net profit, for the year ended December 31, 1958, of £100,264 compared with the 1957 figure of £90,915. A final ordinary dividend of 10 per cent, less tax, has been proposed, making a total distribution for the year of 14 per cent. The directors have also proposed a scrip issue of one new ordinary share for every two held.

● Fifty engineers and architects recently visited Eskimo's new fish processing plant which is now being built at Orwell Street, Grimsby. The visit formed part of a tour organized by the British Concrete Institute.

● George E. Gray Ltd., one of the six U.K. distributors of Swedish Perstorp laminated plastic, are now able to offer, to all appointed stockists of decorative plastics within the London area, a Monday to Friday daily delivery of both sheets and cut sizes.

● Pyrotex Ltd. have moved their London office to 54 Victoria Street, S.W.1 (telephone: Victoria 3745/9). More office space is available and includes a display room and two fully equipped demonstration rooms. The Leeds office has also been moved to larger premises at East Parade Chambers, 10-12 East Parade, Leeds, 1. (Telephone: Leeds 27826.)

● The trading activities of The Alton Battery Co. Ltd. have been taken over by Pritchett & Gold and E.P.S. Co. Ltd., of Dagenite Works, Dagenham Dock, Essex, who have been manufacturing on their behalf since 1958.

● Sir Maurice Bonham Carter, K.C.B., K.C.V.O., has retired from the chairmanship of Blackburn (Dumbarton) Ltd. He has been succeeded by Mr. A. F. Jopling. Mr. T. Bancroft, O.B.E., has resigned from the company owing to pressure of other business.

● Public Relations Associates Ltd., of 67 Brook Street, London, W.1 (telephone: Grosvenor 5573), have been appointed public relations consultants to Holland & Hannen and Cubitts Ltd.

Part of the Architect's department attached to the new London showrooms of The Wall Paper Manufacturers Ltd., designed by Roger and Robert Nicholson. The office and display areas are based upon a 42in module. The suspended ceiling consists of 42in square teak frames with hardboard infillings



● The English Electric Co. Ltd. has opened a new sub-office at 14 Albert Road, Middlesbrough (telephone: Middlesbrough 44346/7). Mr. A. R. Johnson is in charge of the new office and he is responsible to Mr. W. D. M. Lywood, manager of the Newcastle-on-Tyne branch office.

● As a result of the 1959 Budget, Atlas Lighting Ltd. and Ekco Ensign Electric Ltd. have produced new price lists giving full details of all purchase tax adjustments to their ranges of lamps, tubes and lighting fittings. Copies of the lists are obtainable from all area offices.

● Floor Treatments Ltd. are to hold an extraordinary general meeting on May 8, 1959 for the purpose of increasing the capital of the company to £150,000, by the creation of 1,400,000 additional ordinary shares of 1s each.

● Gardiner, Sons & Co. Ltd. show a group profit, after deducting taxation for the year ended December 31, 1958. A final ordinary dividend of 4½ per cent has been proposed together with a tax free distribution of 1½ per cent. Mr. J. F. W. Compton, A.C.A., has been appointed a director of the company.

● The Simms Motor & Electronics Corporation Ltd. has acquired the whole of the issued share capital of Aircraft Steel Structures Ltd., Western Avenue, Middlesex, of which they have held one-third since 1956.

● Allied Ironfounders Ltd. have formed a new Domestic Appliance Division for the marketing of all their solid-fuel and oil-fired products. Mr. Charles Insch has been appointed sales director of the new division and also retains his appointment as managing director of Aga Heat Ltd. Products for which the new division is responsible include Aga cookers, Agamatic boilers and Rayburn cookers, boilers and room heaters.

● Mr. Frank C. Lynam, managing director of the Aircrow Co. & Jicwood Ltd., has been elected chairman of the British Wood Chipboard Manufacturers' Association. He succeeds Mr. E. B. Goldson who held the office for two years.

● Recent appointments within the Turner & Newall Ltd. group of companies include those of Mr. T. R. Earnshaw as a director of Ferodo Ltd. and Mr. J. P. McCormick as a director of Turners Asbestos Cement Co. Ltd.

● The Marine Paints Division of Blundell, Spence & Co. Ltd. supplied about 3,000 gallons of paint for the coating of the recently launched 12,000 ton cargo vessel *Miss Chandris*.

## NEW PRODUCTS

*In this feature are reviewed new lines introduced to the building industry for the first time and additions or improvements to existing ones. Any advantages claimed for a product are from information supplied by the manufacturer*

### Wall Chart Unit

The latest addition to the Movigraph range of charting equipment is a wall chart unit, developed for all progress applications, on which jobs can be plotted in correct numerical order at all times. This new flexible system is known as the Rotacol and the chart is made up of 50 perforated plastics strips, one for each job, and is plotted by means of signals inserted in the perforations. In each case, when work is completed, the strip can be removed, reloaded for a new job and put back at the bottom of the chart. The chart is housed in a frame with a hinged glass front on which division lines can be positioned as required. The unit comprises the frame; two static panels, 23in by 3in; 50 Movigraph strips, 23in by two perforations; 50 Presson strips 6in by 1/4in, complete with card inserts; six division lines; three dozen letters—red, 1/2in, Jan.-Dec.; two gross pegs (assorted six colours); one cursor; one outfit box; six large title frames; one large title sheet; one set Presson calibrated strip. Price: £48 15s for the complete Rotacol unit.

*Adapta-Charts Ltd., 129 Hammer-smith Road, London, W.14. Fulham 1063.*

*Readers' Information Service, Ref. A. Date 29/4/59*

★

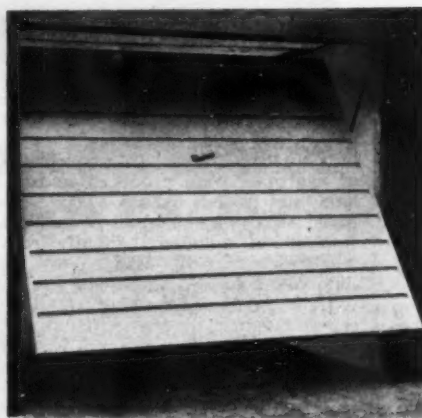
### Overhead Garage Door (B)

The new Garador is an overhead garage door which combines certain features of the Welrise and Wellift

doors to provide a range of standard sizes at a lower price than is possible with these made-to-measure types. The door is constructed from light-gauge, horizontally swaged aluminium skins set in a heavy gauge aluminium channel frame suitably gusseted and cross-braced on the inside to provide a strong and rigid door panel. The operating gear can be accommodated in small sidewall and headroom clearances, and is designed to give an inside clearance which will enable the door to be operated even when the rear bumper of most cars is touching its inside face. Installation is simple, since there are no overhead tracks, and the vertical tracks and pivot arms are attached to the timber door frame by means of only four screws at each side. The door is counter-balanced throughout the whole of its movement by small weights which are located at each side of the opening. A slam-type spring latch is fitted to the centre of the top of the door which is operated by a centrally positioned handle. Provision is made for locking the door on the outside by a padlock and the door is fully weatherstripped along the top and both sides. Standard sizes are 7ft wide by 6ft 6in high, 7ft 3 1/2in wide by 6ft 4in high, and 7ft 5in wide by 6ft 6in high. Delivery: 7-10 days. Standard price: £17 10s ex works (special prices for quantity orders). Finish: grey-green universal primer.

*Westland Engineers Ltd., Yeovil, Somerset. Yeovil 1109.*

*Readers' Information Service, Ref. B. Date 29/4/59.*

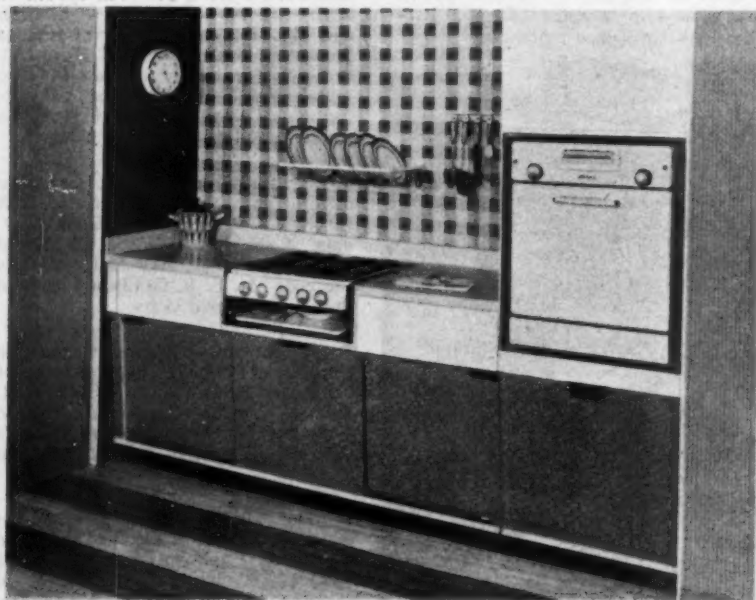


### Built-in Gas Cooker (C)

The New World 72 gas cooker consists of two separate units, the hot plate and the oven, which can be built into fitted kitchen furniture. The hot-plate unit requires a minimum recess of 8 1/4in high by 22 1/2in wide by 18in deep. It has four Radoflex boiling burners with detachable caps. The two burners at the back are rated at 7,500 B.Th.U./hr. and the two at the front at 12,500 B.Th.U./hr. The grill burner, rated at 13,500 B.Th.U./hr., is centrally situated beneath the hotplate top. Taps are of the safety type and can be turned down from full-on to simmering. The grill chamber is lined with vitreous enamel panels and there is a removable pressed steel tray to guide the grill pan to its correct position. Full grilling heat is obtained quickly after lighting and the grill is large enough for six chops. A built-in pressure gas governor is provided. The oven unit requires a minimum recess of 28 1/2in high by 23in wide by 19in deep. It has a drop-down door and incorporates the latest type Regulo control with adjustable knob, single back burner rated at 11,500 B.Th.U./hr., top flue outlet, side linings, and chromium-plated shelves. The oven itself measures 16in high by 18in wide by 14in deep. The interior has rounded corners, wide shelf runners and a removable burner and burner box. To ignite the burner, it is only necessary to put a light to a small hole in the bottom of the oven near the front and turn on the gas. Products of combustion are vented forward through a louvred outlet above the door. There is a built-in constant pressure gas governor. Stainless steel fairings are provided so that both units can be fitted into place without gaps. The units are insulated or otherwise screened to avoid the possibility of overheating neighbouring structures. Finish: cream or white stain-resisting enamel.

*Radiation Group Sales Ltd., 7 Stratford Place, London, W.1.*

*Readers' Information Service, Ref. C. Date 29/4/59.*



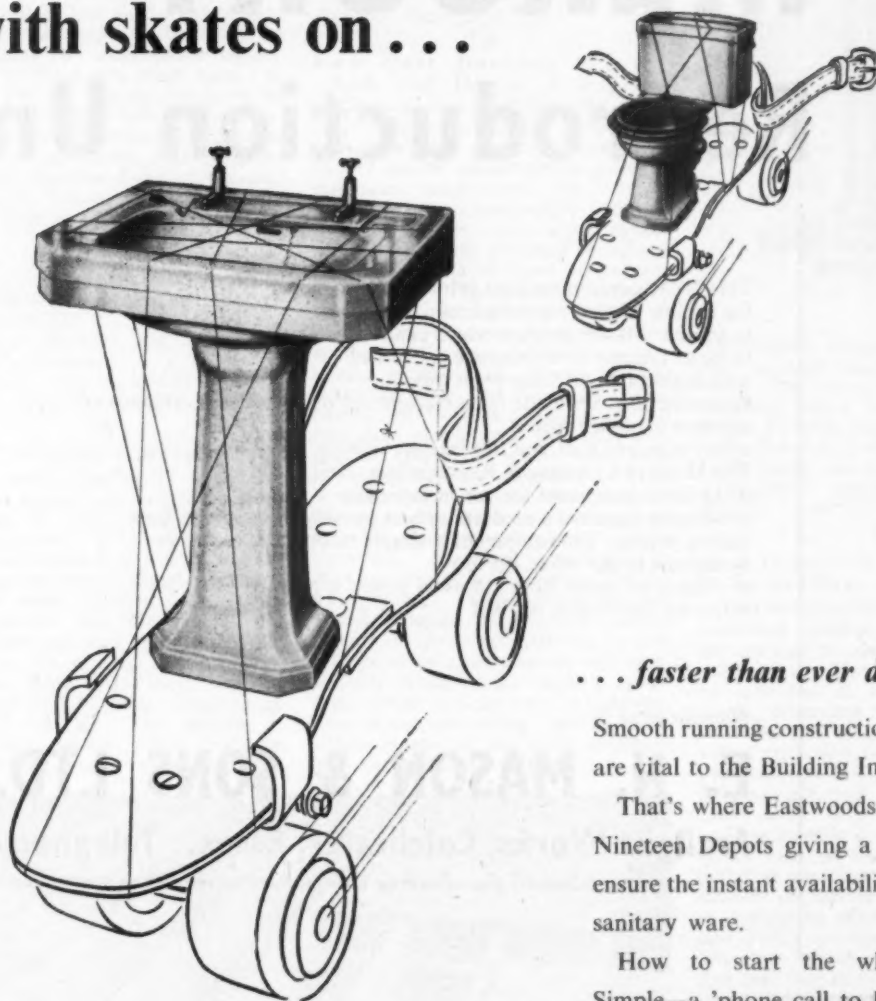
C



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## NEW PRODUCTS (continued)

### New Sump Pump (D)

A small sump pump is the latest addition to this maker's range of non-chokeable pumps. It will handle liquor containing solids of up to  $\frac{1}{4}$  in diameter, thus avoiding the necessity for the constant cleaning of filters. The new pump is supplied as a fully automatic unit complete with electric motor, starter and float control gear and can be arranged for operation on either three- or single-phase supply. The pump has a duty range from 5 to 35 gall per min against heads of up to 30ft. It is fitted with self-lubricating bearings, mechanical seal and the Wallwin single-bladed, open-type, unchokeable impellor. Delivery branch:  $1\frac{1}{2}$  in B.S.P. Minimum size of sump: 18in by 18in by 12in deep. Minimum depth of liquid in sump: 24in. Weight: 100lb complete. Price: £49 10s (approximately). Price varies slightly according to the type of motor fitted.

Wallwin (Pumps) Ltd., Saltisford Ironworks, Warwick.

Readers' Information Service, Ref. D. Date 29/4/59.

★

### New Protective Helmet

The new Skullgard protective helmet is made from a high pressure moulding of glass fibre reinforced polyester resin. It is manufactured to the requirements of B.S. 2826:1957 and is stated to be completely colour-fast and water resistant. Two types are available, one for general use comprising shell and harness, and the other for the mining industry, with the shell fitted with lamp bracket, cable clip and harness. Sizes range from 6 $\frac{1}{2}$  to 7 $\frac{1}{2}$ . The harness is made from strong cotton webbing incorporating leather sweatband and

nylon laces. The harness is adjustable in  $\frac{1}{4}$  graduations to suit individual sizes of helmet. The Skullgard has a pronounced peak which is tapered off around the edge of the shell to create a protective lip. Sponge rubber cushions are fitted between the detachable harness and the shell. Crown clearance is fully adjustable.

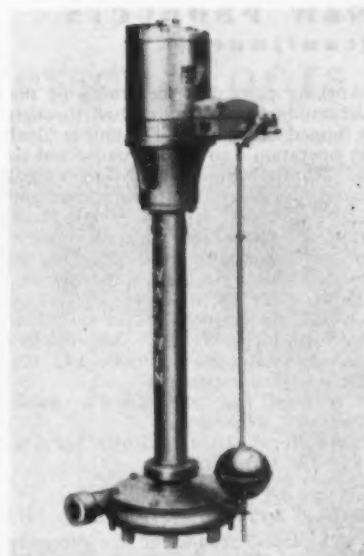
Mine Safety Appliances Ltd., Queenslie Industrial Estate, Glasgow, E.3.

Readers' Information Service, Ref. E. Date 29/4/59.

★

### Low Cost Decking (F)

Low Cost Decking is the latest addition to this manufacturers' range of prefabricated building components. It is basically a system of lightweight timber panels consisting of solid or laminated longitudinal members at 1ft 4in centres, interlocked with lin by 2in noggings. The upper surface is clad with  $\frac{1}{2}$  in plywood sheathing, although alternative types of cladding can be used. The panels are designed to support loads of up to 80lb/sq ft so that they can be used for either roofing or flooring. There is a particular emphasis on cross-wall construction since the range of spans covers up to 21ft. There are no modular restrictions and the individual panels are spaced apart with a variable gap not exceeding 16in. It is claimed that in this way complete flexibility of planning is obtained and that all building tolerances can be absorbed. Rooflight openings, to take up to 4ft wide domes, can be incorporated. Specialist knowledge is not required for erection, and a recent job covering 5,100 sq ft was completed in eight days by six men. Illustration shows the decking under construction at a shop site in Sheffield. The fixing of ceiling boards is a simple matter as the main members provide adequate support, and any



D

intermediate noggings can easily be fixed at appropriate centres between them. The erected cost, including the cladding, varies between 3s 6d and 5s per ft super, according to the span.

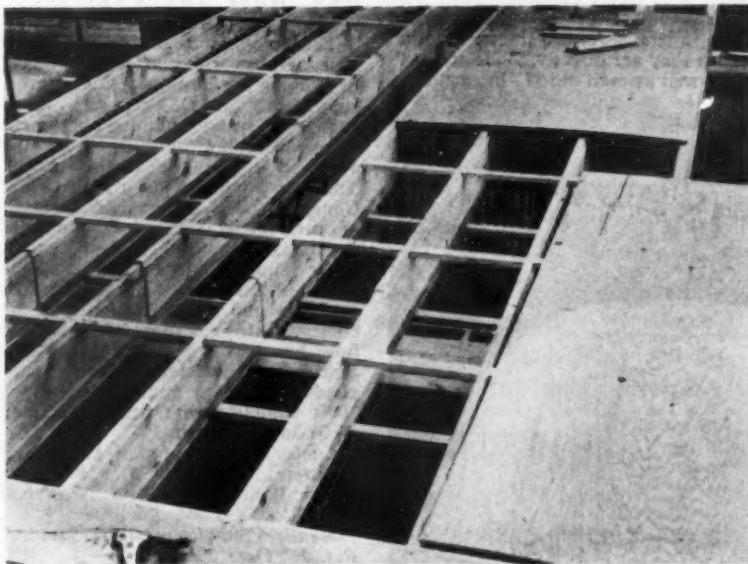
H. Newsum, Sons & Co. Ltd., 238 High Street, Lincoln. Lincoln 23284.

Readers' Information Service, Ref. F. Date 29/4/59.

★

### New Industrial Dehumidifier (G)

This company has introduced a new industrial dehumidifier for the dry storage and processing of hygroscopic materials and for use in locations such as laboratories, test rooms, strong rooms, document storage spaces and canteens. It is claimed to have a water extraction rate of up to 1 pint per hour and will, under average conditions, deal with a space of up to 2,000 cu ft. The housing is smooth and rectangular in cross section with an air inlet on the front and an air outlet at the rear. The unit can be situated on storage shelves, embodied in ventilating ductwork or arranged into banks for multiple installations. The base carries screwed bushes so that feet can be fitted when the unit is to be free-standing. The inlet grille can accommodate an optional glass fibre air filter and handles can be fitted to the housing. The refrigeration system is hermetically sealed and the water condensed on the cooling coil is collected in a tray with a draining connection. The air circulated is then heated back to its original temperature and blown into the room. The lowest relative humidity obtainable depends on the ambient temperature, thus for temperatures of 80, 65 and 55 deg F, the respective relative humidities obtainable are 35 to 40 per cent, 48 to 50 per cent and 55 per cent. With low ambient temperatures, it is advisable to fit a time switch.



F



## NEW PRODUCTS (continued)

Working parts and the wiring of the dehumidifier can be reached through a hinged side panel. The unit is silent in operation and can be connected to a 2 amp 3-pin socket or to a light fitting. Electrical characteristics: 220/240V, 50 cycles, single-phase supply. Extraction capacity: 0.41lb of water per hour at 75 deg D.B. or 66 deg W.B. Electrical consumption: 250W. Air circulation: 150 c.f.m. Overall dimensions: 15½in by 12½in by 10½in high. Weight: 55lb. Finish: polychromatic grey. Price: £42 10s. Delivery: immediate.

Westool Ltd., St. Helen's, Auckland, Co. Durham.

Readers' Information Service, Ref. G. Date 29/4/59.

★

### First British Airhouse (H)

The latest product of this company is a portable house, known as the Gourrock Airhouse, which is claimed to be the first of its type to be made in Britain. In the case illustrated, it is made of Birkmyre's PluViac cloth, a lightweight nylon fabric P.V.C. coated with a paste based on P.V.C. supplied by British Geon Ltd. It is 100ft long by 40ft wide by 20ft high and is held in position by pegs securing the base ring. It is completely without guy ropes, poles or struts. When erecting, the deflated house should be laid out on its site in sections, the sections laced together and the base ring secured either by water ballasting or by pegging down. An electrically driven fan or petrol engined fan unit should then be started so as to blow a large volume of low pressure air under the fabric. Slowly the dome of the house will rise until, in a few minutes, it will be fully extended, and then it is only the pressure differential between the inner and outer surfaces of the dome which will keep it so. The fan should be kept running as long as the Airhouse is in use, for once it is shut off, the house will deflate in

about 10 to 15 minutes. The ends are hemispherical and an air-lock porch, with two sets of swing doors, is shown in our picture. Much larger doors can be provided and larger houses can be produced by lacing in extra sections. Typical applications would appear to be in the fields of civil engineering, building, transport, survey exploration, military movement and storage. Special models are available for use in both Arctic and tropical climates.

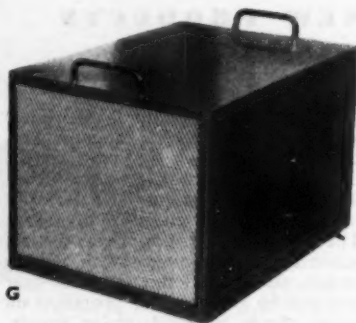
The Gourrock Ropework Co. Ltd., Port Glasgow, Scotland. Port Glasgow 41261.

Readers' Information Service, Ref. H. Date 29/4/59.

★

### Telephonic Inter-communication (I)

Two new products have been added to the Adaptaphone range of telephonic instruments. The first of these, the Speechmaster (illustration, top), can be used with either six single-line or five five-line telephones. All are in direct communication with the Speechmaster by simple push-button calling and five-line phones with each other as well. The Speechmaster will call any of these extensions and the operator has only to depress the appropriate key before speaking. There is an integral hand set, the use of which automatically cuts off the loudspeaker so that incoming speech remains private. A call for an extension sounds a buzzer and an annunciator pops out to indicate the origin of the call. The use of transistors has made possible the small size of the unit which in polished wood case measures only 14in by 5½in by 8in. The second new product is the Modern internal telephone which is suitable for those who require up to six intercommunicating telephones. Five-line Adaptaphones may be interconnected so that each is in direct communication with all the others, or they may be used with a transistorized master station when they are directly connected with it as well as each other. In each case,



calling is by simple push-button. The single-line models are suitable for a two-way system or up to six interconnected instruments. The instruments are of polished moulded plastic and available in grey, black, beige and ivory.

Modern Telephones (Great Britain) Ltd., 101 Tottenham Court Road, London, W.1.

Readers' Information Service, Ref. I. Date 29/4/59.

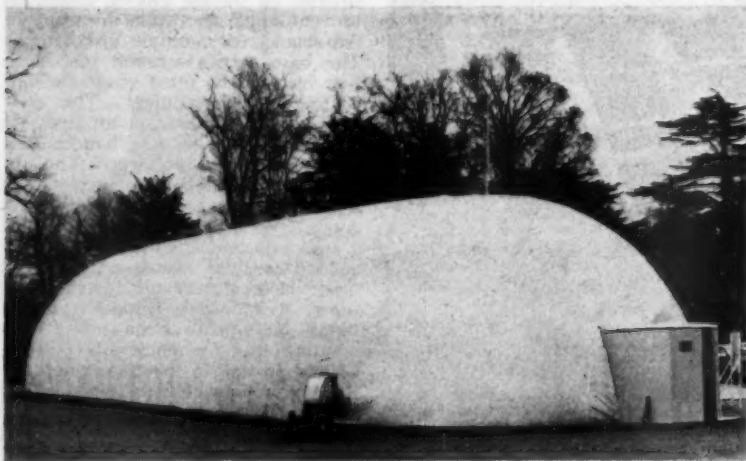
★

### New Hose for Concrete Curing Work

This company has introduced a new type of hose with the specific object of keeping the hessian or sand covering freshly placed concrete in a sufficiently moist condition to prevent them absorbing moisture from the concrete during the curing period. The new product, known as the CCL Conspray hose, consists of a length of perforated plastic sprayline hose which is connected to the normal water supply lines. The hose is placed on and around the hessian covering and its operation can be controlled from a single valve. The hose has special perforations at 2½in centres to avoid clogging and is supplied in standard multiple lengths of 100ft complete with fittings. Price: £4 3s 3d per length.

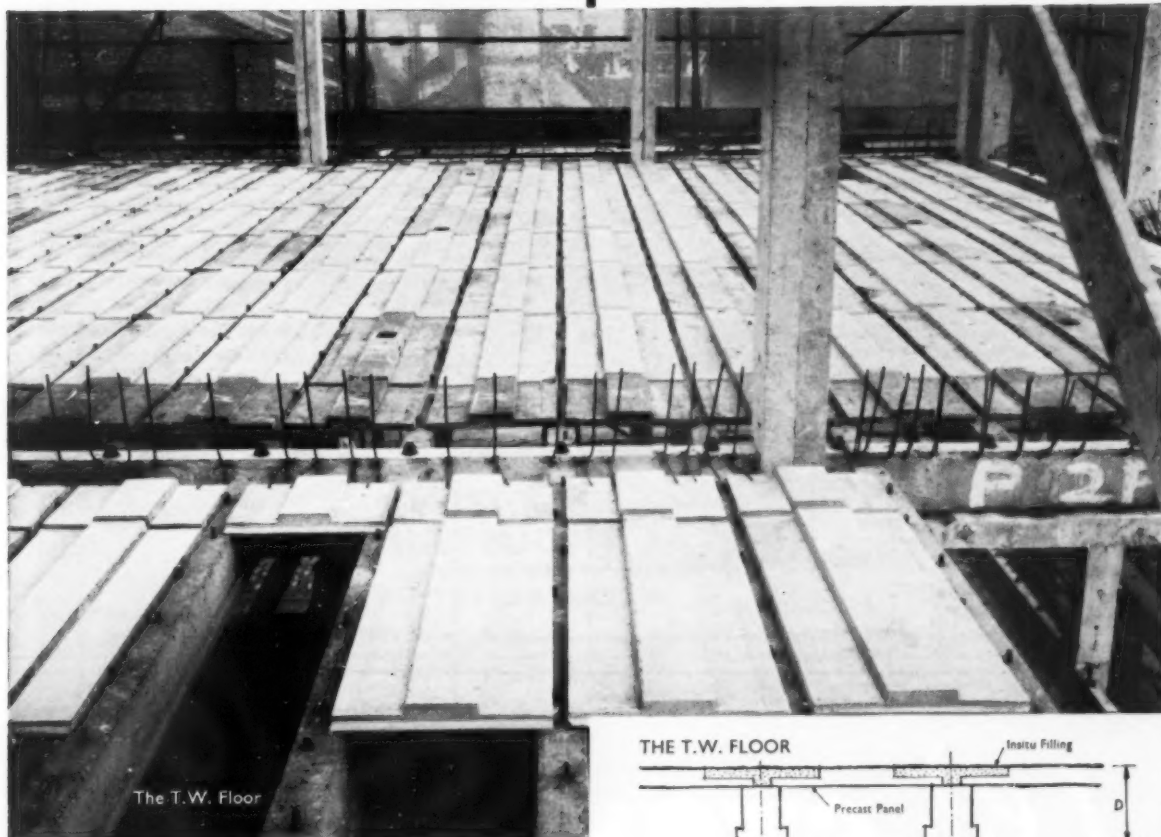
Cable Covers Ltd., Prestressed Concrete Division, St. Stephen's House, Westminster, S.W.1. Whitehall 3616.

Readers' Information Service, Ref. J. Date 29/4/59.

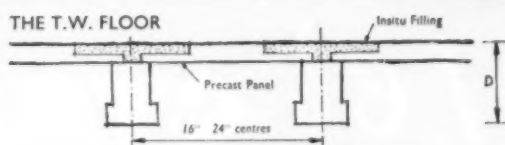


H

# Truscon | prestressed floors



THE T.W. FLOOR



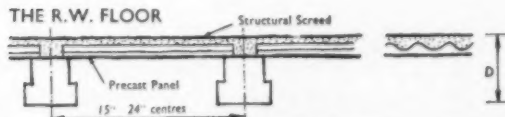
80 lb./sq. ft. Superload					
Depth:	6"	7½"	9"	10½"	12"
Span:	15' 0"	19' 0"	24' 0"	27' 0"	32' 0"

Proved during the last two years in schools erected on the Picture Frame System, these floors have now been added to the Truscon Precast range and are available for all types of building. These versatile floors make possible long spans with a minimum of weight and floor thickness. In a modified form these prestressed units are employed as purlins at wide centres supporting a variety of light roof decks.

Truscon Limited (formerly the Trussed Concrete Steel Co. Ltd.)  
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Also at Birmingham, Central 2345-6; Bristol 21861; Glasgow, Central 0157-8;  
Liverpool, Central 5281-2; Manchester, Trafford Park 2766; York 24594.

THE R.W. FLOOR



80 lb./sq. ft. Superload					
Depth:	6"	7½"	9"	10½"	12"
Span:	15' 0"	19' 0"	24' 0"	27' 0"	32' 0"

THE H.W. FLOOR



80 lb./sq. ft. Superload					
Depth:	5"	7"	8"	10"	13"
Span:	14' 0"	20' 0"	24' 0"	30' 0"	35' 0"

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The illustration shows a typical installation of ABIX Steel Shelving, supplied to a well-known Paint Manufacturer. Note the easy access to the Shelving and the orderly appearance.

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Please write for Catalogue A.B.N.3.

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*Here's what  
The British Thomson-Houston  
Company's Rugby Works  
Architect  
says about  
Stonhard  
Resurfacer —*

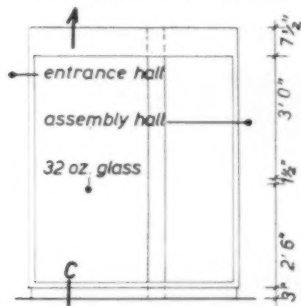
"We have used STONHARD RESURFACER recently on the conversion of one of our buildings; for many years we have used other materials made by you for patch repair work.

"We have found STONHARD RESURFACER excellent for resurfacing badly pitted floors which could not be further overloaded and where the work had to be carried out without seriously disturbing production.

"Its advantages are that it can be laid to a feather-edge; it sustains heavy impacts without cracking, improves under heavy traffic and tends to be dustproof."

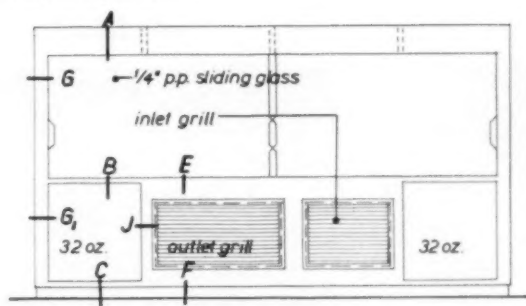
For our free brochure write to:—Stonhard Co. Ltd., Berger House, Berkeley Square, London, W.1



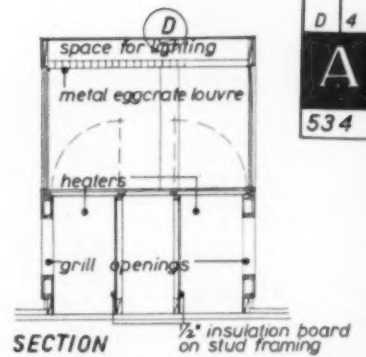


SIDE ELEVATION

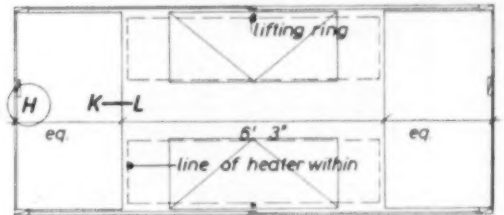
1/4"-1'0"



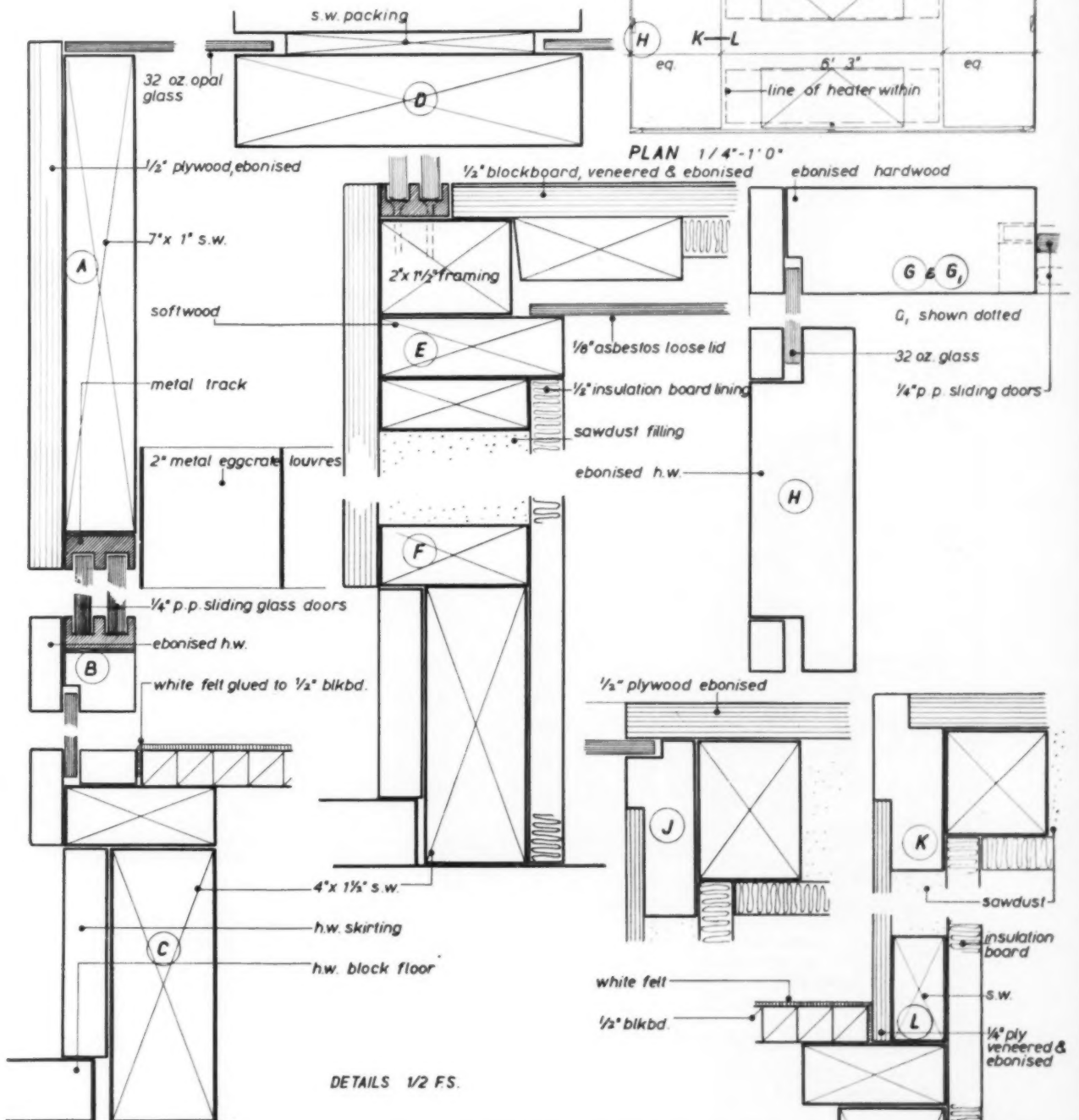
FRONT & BACK ELEVATION



SECTION



PLAN 1/4"-1'0"



DETAILS 1/2 F.S.



Heating units are combined with a display case to form a screen between the Entrance Hall and the Assembly Hall in the Bloxwich Comprehensive School at Walsall. The hardwood framework and blockboard and plywood facings are ebonised. The woodblock floor is in gurjun with a recessed skirting in agba. The heating grilles are sprayed with aluminium paint and horizontal display areas are covered in white felt. The cabinet is lit with an egg crate fitting painted white. Architects: Richard Sheppard, Robson and Partners. Photographs: Logan (top) and Sam Lambert (bottom)

Notes below give basic data of contracts open under locality and authority which are in a bold type. References indicate: (a) type of work (b) address for application. Where no town is stated in the

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# CONTRACT • NEWS •

OPEN

## BUILDING

**ABERCARN U.C.** (a) Construction of four shops with four flats, Pant estate, Newbridge. (b) Council's Engineer, Council Offices. (c) 3gn. (e) May 26.

**BARKING B.C.** (a) Westbury Road flats, estimated to cost £30,000. Applications from contractors able to proceed immediately with the work. (b) Borough Architect, Town Hall. (c) 5gn. (d) May 4.

**BEDFORD B.C.** (a) Erection of 32 dwellings at Brickhill Drive and Robin Hill, Brickhill estate, Bedford. (b) F. W. Dawkes, Borough Engineer and Surveyor, Newnham House, Horne Lane, Bedford. (c) 3gn. (d) May 1.

**BERKHAMSTED U.C.** (a) 13 garages in one block, with tarmacadam washdown, Durrants estate. (b) Acting Engineer and Surveyor, Civic Centre. (c) 2gn. (e) May 25.

**BRIGHTON B.C.** (a) Erection of three children's homes at Hollingdean, Lower Bevendean and South Woodingdean estates. (b) Borough Surveyor, Engineer and Planning Officer, 26-30 King's Road, Brighton. (c) 2gn. (d) May 25.

**CASTLEDERG, TYRONE.** (a) Fixed-price tenders for erection and completion of new council offices and boardroom (approx. 3,000 sq ft area), garage, stores, roadways and sewers. (b) Clerk to the Council, R.D.C. Offices, Castlederg, Tyrone. (d) April 30.

**CHELMSFORD B.C.** (a) Erection of public conveniences at Market Road. (b) Borough Engineer, Municipal Offices, Coral Lane. (c) 2gn, payable to Corporation. (e) May 19.

**CHELMSFORD B.C.** (a) 43 brick garages on two sites. (b) Borough Engineer and Surveyor, Municipal Offices. (c) 2gn. (e) May 13.

**CHINGFORD B.C.** (a) Erection of 40 houses, Hawkwood Crescent. (b) Borough Engineer, Town Hall. (c) 2gn. (e) May 25.

**COALVILLE U.C.** (a) Site preparation for housing, roads and sewers on Greenhill housing estate, stage 4. (b) Engineer and Surveyor, Municipal Offices. (c) 3gn. (e) May 11.

**EAST BARNET U.C.** (a) Fixed-price tenders for erection of 65 dwellings and eight garages, Pine Road Development Area. (b) Engineer and Surveyor, Town Hall, Station Road, New Barnet, Herts. (c) 2gn. (e) June 6.

**EIRE—DUBLIN.** (a) Electrical installation at new convent at Bon Secours Hospital, St. Joseph's Glasnevin, Dublin. (b) Messrs. J. V. Tierney & Co., 15/16 Duke Street, Dublin. (c) 5gn. (e) May 15.

**EIRE—DUBLIN.** (a) Erection and completion of new convent at Bon Secours

address it is the same as the locality given in the heading (c) deposit (d) last date of application (e) last date and time for submission of tenders. Full details of contracts marked \* are given in the advertisement section.

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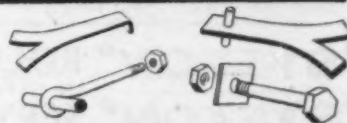
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Hospital, St. Joseph's Glasnevin, Dublin. (b) J. R. Boyd Barrett, 5 Camden Place, Cork. (c) 10gn. (e) May 15.

**EIRE—DUBLIN.** (a) Erection and completion, on a newly prepared foundation, of an estate managerial office at Mespiu estate, Sussex Road, Dublin, for Irish Estates Ltd. (b) Chief Architect's Office, 43 Mespiu Road, Dublin. (c) 25gn. (e) May 4.

**EIRE—DUBLIN.** (a) Mechanical installation at new convent at Bon Secours Hospital, St. Joseph's Glasnevin. (b) Messrs. J. V. Tierney & Co., 15/16 Duke Street, Dublin. (c) 5gn. (e) May 15.

**EIRE—DUBLIN.** (a) Naas Road By-pass Drainage Remedial Scheme. Supply and laying of a total of 1,640 lin yd of surface water drains 9in, 12in, 15in and 18in diam. (b) City Treasurer, Exchange Buildings, Lord Edward Street, Dublin. (c) £5. (e) May 11.

**EIRE—E.S.B.** (a) Erection of 24 semi-detached staff houses at Rhode, Co. Offaly, for Electricity Supply Board. (b) John O'Brien, 8 Leinster Street, Dublin. (c) 15gn (cheque to be made payable to the Electricity Supply Board). (e) May 11.

**EIRE—GALWAY C.C.** (a) Construction of a water supply scheme extension at Dunmore, Co. Galway, for Galway County Council. (b) Messrs. H. G. L. O'Connor & Co., 4 St. Francis Street, Galway. (c) 10gn. (e) May 19.

**EIRE—KERRY C.C.** (a) Construction of a new water supply scheme for Moyvane, and a complete sewerage scheme for Tarbet, for Kerry County Council. (b) Ed Ralph Ryan, 1 Montpellier Terrace, Galway. (c) 10gn. (e) May 25.

**EIRE—CO. KERRY.** (a) Renovation and repairs to Tahilla Church for the Very Rev. D. Curran, P.P., Sneene. (b) Chevalier Patrick J. Sheahan, architect, 47 O'Connell Street, Limerick. (c) £10. (e) May 11.

**EIRE—NEATH V.E.C.** (a) (1) The heating installation; and (2) the electrical installation at the Vocational School, Oldcastle, Co. Meath, for Co. Meath Vocation Education Committee. (b) Mr. J. F. McCormack, 4 Fitzwilliam Street, Dublin. (c) £5 or each set of documents. (e) May 8.

**GT. YARMOUTH B.C.** (a) Erection of 24 aged persons' bungalows, warden's and communal unit at Magdalene College estate, Gorleston. Fixed-price tenders. (b) Borough Engineer's Office. (c) 2gn. (e) May 22.

**GT. YARMOUTH B.C.** (a) Grammar school extension, stage 2. Erection of an assembly hall, kitchen and other buildings. (b) F. Jackson, A.R.I.B.A., Schools Architect, 22 Euston Road, Gt. Yarmouth. (c) 2gn, payable to the Corporation. (e) May 22.

**GUILDFORD R.C.** (a) Site works, construction of reinforced concrete ejector station and brick superstructure and c.i. rising main, extension to sewage disposal works. (b) J. W. Snape, Engineer and Surveyor, Milmead House, Guildford. (c) 2gn. (e) May 11.

**HARTLEPOOL B.C.** (a) Erection of garages, total number 56, on five sites. (b) Borough Engineer. (c) 2gn. (e) May 11.

**HESTON AND ISLEWORTH B.C.** (a) New scullery at Wellington Junior School. (b) Borough Engineer and Surveyor, 88 Lampton Road, Hounslow. (c) May 8.

**HINCKLEY, LEICS.** (a) Construction of Lancaster Road bus station with roads, sewerage, etc. (b) Engineer and Surveyor, St. Mary's Road, Hinckley. (c) £2. (e) May 12.

**KIDSGROVE U.C.** (a) Construction of a sewage pumping station and 500yd of cast iron and salt-glazed ware pipes, and other works. (b) Engineer and Surveyor, Town Hall, Kidsgrove, Staffs. (c) 2gn. (e) May 6.

**KNIGHTON U.C.** (a) Rebuilding the retaining wall, Station Road and road improvements, Church Road. (b) Clerk to the Council, Town Hall, Knighton, Radnorshire. (c) 1gn. (e) May 5.

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**LEEDS REGIONAL HOSPITAL BOARD.** (a) Fixed-price tenders for alterations to sluices, etc., at Lynfield Mount Hospital, Bradford. (b) Architect to the Board, Park Parade, Harrogate. (c) 2gn. (d) May 5.

**LEOMINSTER B.C.** (a) Public conveniences and a refreshment kiosk at the Grange. (b) Borough Engineer and Surveyor, Hy. Schofield, Municipal Offices, Grange Court, Leominster. (c) 2gn. (e) May 14.

**NORWICH C.C.** (a) Construction of a three-million-gallon capacity reinforced concrete reservoir at Telegraph Lane. (b) S. N. Kelly, Engineer and Manager, City Hall, Norwich. (c) 2gn. (e) May 26.

**REIGATE B.C.** (a) Fixed-price tenders for six blocks of six three-storey flats, outbuildings and 15 garages at The Dome estate. (b) Borough Engineer and Surveyor, Town Hall. (c) 2gn. (e) May 22.

**ROTHERHAM B.C.** (a) Erection of 138 houses and 56 garages on Kimberworth Park estate, in traditional construction. (b) Borough Engineer, Municipal Offices. (c) 5gn. (d) May 5.

**SUNDERLAND B.C.** (a) Erection of an aged persons' hostel at Hylton Red House estate. (b) Borough Architect, Grange House, Stockton Road, Sunderland. (c) 2gn. (e) May 11.

**ULSTER—CITY OF BELFAST.** (a) Erection and completion of 23 dwellings at Park Avenue/ Kimona Street. (b) Housing Architect's Department, Townsend House, 97 Townsend Street, Belfast. (c) 59gn (cheque to be made payable to Belfast Corporation). (e) May 5.

**ULSTER—LARNE.** (a) Execution of the several works required in building and completing the church hall and ancillary works at St. Cedma's Parish Church, Larne. (b) Donald A. Macniven, 135 Main Street, Larne. (c) 5gn. (e) May 8.

**ULSTER—NEWRY U.D.C.** (a) Construction of a new roadway over the Newry Canal, at the intersection of Sugar Island and Merchants Quay, for Newry Urban District Council. (b) Mr. C. Blaney, Town Surveyor, Council Offices, Town Hall, Newry. (c) 5gn. (e) May 9.

**ULSTER—NEWRY No. 2—R.D.C.** (a) Supply and installation of electrically driven pumping plant at Crossmaglen, Co. Armagh, for Newry No. 2 Rural District Council comprehensive water scheme. (b) Council's Consulting Engineers, Messrs. Nicholas O'Dwyer & Son, 6 Trevor Hill, Newry, Co. Down. (c) 5gns. (e) June 3.

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**UNIVERSITY OF SOUTHAMPTON, SCHOOL OF NAVIGATION.** (a) Erection of new dormitory and communal block, etc. Cost: £210,000. (b) Apply at once to Richard Sheppard, Robson and Partners, 5 Southampton Pl, London, W.C.1, who will advise on the selection of a panel of firms to tender. Contractors should supply details of works of similar size carried out in the last three years.

**WEST SUFFOLK C.C.** (a) Erection of a range of farm buildings, with road and demolition works, Elms Farm, Great Barton, nr. Bury St. Edmunds. (b) County Land Agent, Shire Hall, Bury St. Edmunds. (c) May 19.

**WINCHESTER C.C.** (a) Six shops, three flats, two houses, Garbett Road. (b) A. S. Wilson & Partners, chartered quantity surveyors, 8 Storey's Gate, Westminster, S.W.1. (d) May 4. (c) 2gn. payable to Corporation.

### PLACED

Notes on contracts placed state locality and authority in bold type with (1) type of work (2) site, (3) name of contractor and address, (4) amount of tender or estimate. † denotes that work may not start pending final acceptance, or obtaining of licence, or modification of tenders, etc.

**WAR DEPARTMENT.** (1) Construction of two barracks. (2) Catterick Camp, Yorkshire. (3) Sir Lindsay Parkinson & Co. Ltd., 6 Lambeth Road, London, S.E.1. (4) £1,000,000.

**MIDDLESBROUGH B.C.** (1) 52 flats and maisonnettes. (2) St. Hilda's, third section. (3) James Miller & Partners Ltd., New Millerdam, Wakefield. (4) £157,000.

**BEDLINGTON U.C.** (1) 19 shops and seven flats. (2) Guide Post. (3) J. Dodds & Son, Dark Lane, Morpeth.

**DUDLEY B.C.** (1) 120 flats. (2) Wren's Nest redevelopment. (3) Henry Boot & Sons Ltd., Pheasey Estate, Great Barr, Birmingham. (4) £190,255.

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**WASHINGTON U.C.** (1) 118 houses. (2) Coach Road estate. (3) Isaac Berriman Ltd., The Woodlands, Fence Houses, Co. Durham. (4) £151,345.

**YORK C.C.** (1) Erection of open air school. (2) Beckfield Lane. (3) J. & C. Hull, 22 Parliament Street, York. (4) £42,758. (1) 100 dwellings. (2) Chapel-fields estate. (3) Sorrell (York) Ltd., 95 Heworth Village, York. (4) £134,804.

**SUNDERLAND B.C.** (1) Primary infants' school. (2) Grindon Village. (3) Tate & Holmes Ltd., Benwell, Newcastle upon Tyne. (4) £65,567.

**KENSINGTON B.C.** (1) 48 flats. (2) St. Mark's Grove. (3) Tersons Ltd., Dollis Park, Finchley, London, N.3. (4) £73,863.

**BIRKENHEAD B.C.** (1) Office block. (2) Cleveland Street and Argyle Street. (3) William Thornton & Sons Ltd., Welling-ton Road, Liverpool.

**BLACKPOOL B.C.** (1) Infants' school. (2) Bispham. (3) Roger Eaves & Son Ltd., Fleetwood. (4) £37,500. (1) 22 houses. (2) Mansfield Road. (3) Gregory Housing Ltd., 21 Farncombe Road, Worthing. (4) £33,375.

**COVENTRY C.C.** (1) Ten shops. (2) Market Way. (3) W. H. Jones & Sons Ltd., Coventry. (4) £51,978.

**NEWCASTLE UNDER LYME B.C.** (1) Erection of Blackfriars Special School. (3) Shenton's Ltd., St. Margaret's Drive, Sneyd Green, Stoke-on-Trent. (4) £39,750.

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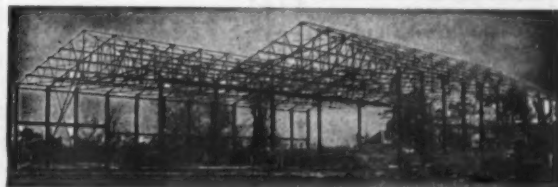
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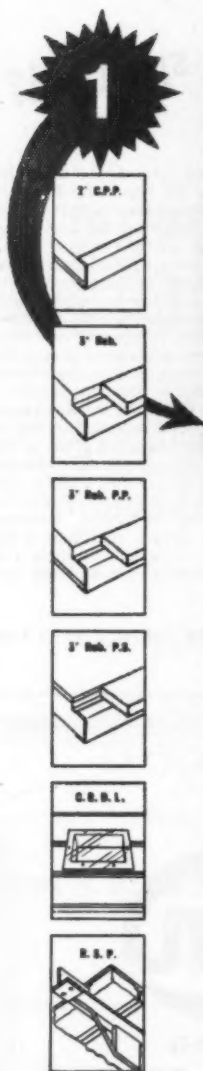
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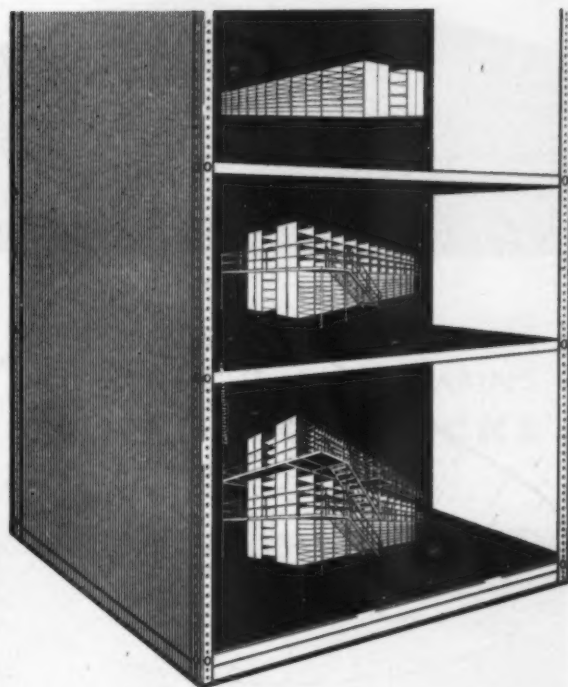
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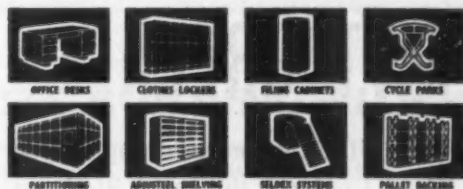
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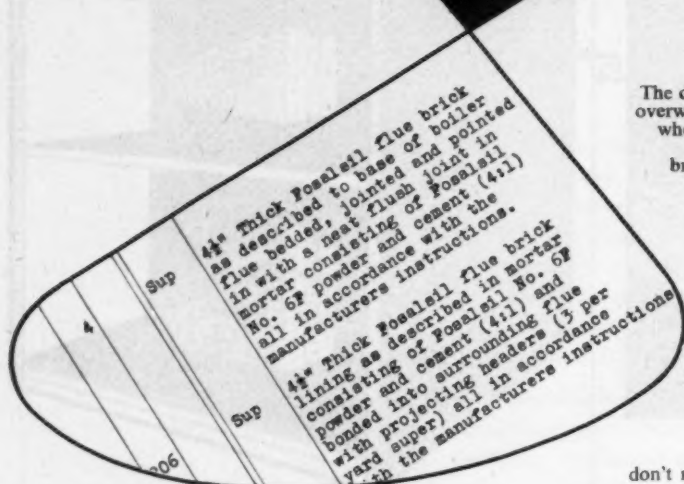
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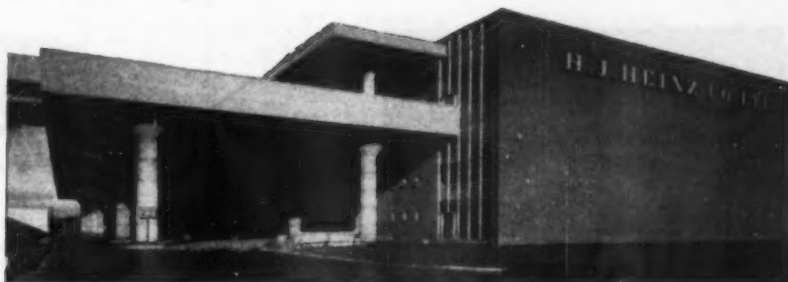
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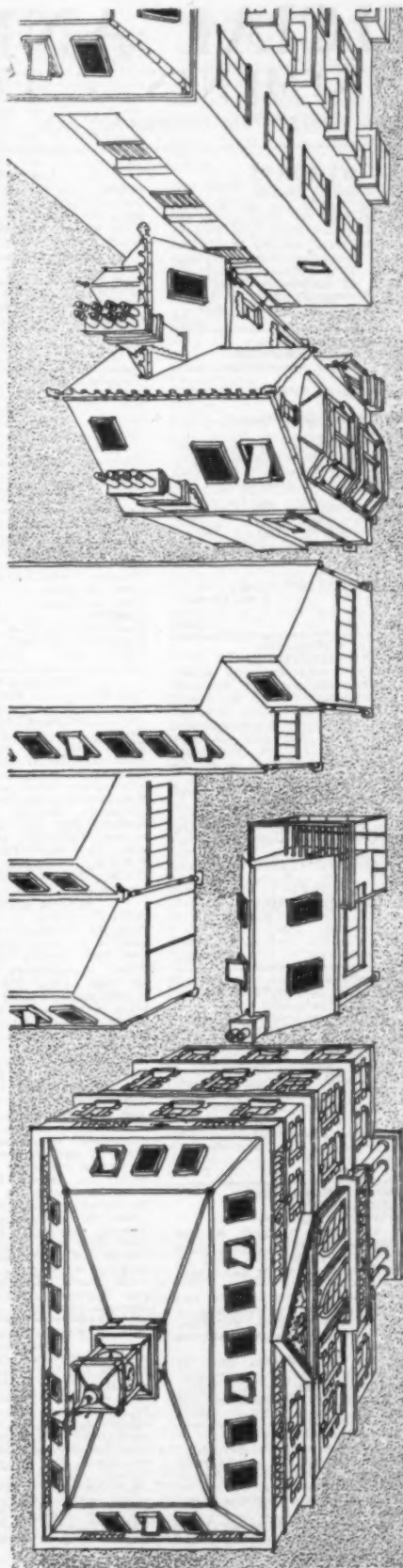
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# OFFICIAL ANNOUNCEMENTS

## APPOINTMENTS • CONTRACTS • TENDERS

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### APPOINTMENTS

#### Flintshire Council

APPLICATIONS are invited for an Assistant Architect. Candidates must be Associates of the R.I.B.A. and have had substantial experience in an architect's office since passing the Final Examination and be conversant with the design of schools. Salary: Special Scale (£750/£1,030 per annum). Form of application from Clerk of County Council, County Buildings (P.O. Box No. 1), Mold. Closing date: May 11, 1959.

[5087]

#### Borough of Enfield

Borough Engineer's Department  
APPLICATIONS are invited for established posts within the Grades shown:

(a) Architectural Assistant, APT I and II (£575/£845 per annum).

(b) Architectural Assistant (Maintenance), APT I (£575/£725 per annum).

A London Weighting allowance of £10/£30 per annum, according to age, will be paid in addition to the above salaries. The commencing salary will be in accordance with qualifications and experience.

Saturday mornings are normally free of duty.

Application forms, returnable by May 13, 1959, to be obtained from H. Deryck Peake, M.Sc.(Eng.), M.I.C.E., Borough Engineer and Surveyor, "Racey House," 7 Little Park Gardens, Enfield, Middx.

CYRIL E. C. R. PLATTEN, L.L.B.,  
Town Clerk.

Public Offices,  
Enfield, Middx. [5069]

#### Borough of Walthamstow

ASSISTANT ARCHITECT  
APPLICATIONS are invited for the above appointment in the Borough Architect, Engineer and Surveyor's Department (F. G. Southgate, A.R.I.B.A., M.I.Mun.E., A.M.T.P.I., Borough Architect, Engineer and Surveyor), at a salary in accordance with Grade III, APT Division (£845/£1,025, exclusive of London Weighting) with the commencing salary according to qualifications and experience.

Applicants must be Registered Architects and have had experience of housing schemes.

Applications, stating age, qualifications, experience and present occupation, together with the names of two referees, one of whom should be the present or former employer, are to be received by the undersigned not later than noon on Friday, May 15, 1959, endorsed "Assistant Architect."

G. A. BLAKELEY,  
Town Clerk.

Town Hall,  
Walthamstow, E.17. \ [5102]  
April 20, 1959.

#### City of Bradford

##### SENIOR QUANTITY SURVEYORS (2)

APT IV (£1,065/£1,220)

REQUIRED on the permanent staff.

Candidates must be Corporate Members of the R.I.C.S. (Quantities Section) and have experience in the "Standard Method of Measurement."

No assistance can be given in the provision of housing accommodation. Application forms obtainable from the City Architect, returnable with copies of two recent testimonials, by May 16, 1959.

W. H. LEATHAM,  
Town Clerk.

Town Hall,  
Bradford, I. [5114]

#### Government of British Honduras

Public Works Department

TO design houses and public buildings, prepare sketch plans and working drawings, specifications and quantities for carrying out work both by contract and direct labour, under the supervision of the Director of Public Works.

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Candidates, between 30 and 50, must be A.R.I.B.A. with considerable general experience. Write Director of Recruitment, Colonial Office, London, S.W.1, stating age, qualifications and experience, quoting B.C.D. 112/31/07. [5092]

#### Flintshire Council

Associates of R.I.C.S. (Quantities Sub-section)  
APPLICATIONS are invited for a Quantity Surveyor (Senior). Candidates should be Associates of R.I.C.S. with four years' practical experience as quantity surveyor since passing Final examination. Salary APT V (£1,220/£1,375 per annum). Form of application from Clerk of County Council, County Buildings (P.O. Box No. 1), Mold. Closing date: May 19, 1959. [5110]

#### Lenark County Council

APPLICATIONS are invited for appointment to the following posts in the County Housing Architect's Department, Hamilton:

(a) Senior Architect to act as group leader. Salary scale (£1,250/£1,350).

(b) Senior Assistant Architects. Salary scale (£1,100/£1,250).

(c) Architectural Assistants. A. & P. Grades I to VIII (£595/£1,055).

Applicants for posts (a) and (b) must be fully qualified and have experience in preparation of comprehensive layouts for areas of new development and redevelopment; design and construction of multi-storey flats and maisonettes, shops and other ancillary buildings.

For (c) placing on A. & P. Grades will be dependent on qualifications and experience.

Superannuation.

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Applications, stating age, qualifications and experience, together with names and addresses of two referees to: County Clerk, P.O. Box 1, Glasgow, within 14 days of date of advertisement. [5099]

#### London County Council

##### ARCHITECTS

##### Grade III

REQUIRED for housing, schools and general divisions. Full and varied programme of new work including schools, multi-storey flats and town development. Up to £1,090 according to qualifications and experience. Particulars and application form from Hubert Bennett, F.R.I.B.A., Architect to Council, AR/EK/25/29, County Hall, S.E.1. (441) [0204]

#### London County Council

##### ARCHITECT

##### Grade III (up to £1,090) and

##### ARCHITECTURAL ASSISTANTS

##### (up to £860)

REQUIRED for maintenance and restoration work on historic buildings owned by Council. Candidates should have knowledge of historical architectural detail and special interest in work. Experience in the maintenance of buildings an advantage. Starting salaries according to qualifications and experience and at present under review. Particulars and application form, returnable by May 19, from Hubert Bennett, F.R.I.B.A., Architect to Council, AR/EK/42/59, County Hall, S.E.1. (922). [5116]

#### Sheffield Regional Hospital Board

APPLICATIONS are invited for the post of Assistant Architect on the Board's architectural staff. Candidates must be Registered Architects and have passed the requisite examinations. Salary according to age and experience within the scale £730/£1,055 per annum. Appointment is subject to Whiteley Council terms and conditions of service, to the National Health Service (Superannuation) Regulations, and to one month's notice on either side. Applications, together with the names of three referees, should be sent to the Secretary, Sheffield Regional Hospital Board, Fulwood House, Old Fulwood Road, Sheffield, 10, not later than May 15, 1959. [5095]

AIR Ministry Works, Design Branch, requires in London and Provinces, Architectural Assistants experienced in planning/preparation of working drawings and details of permanent and semi-permanent buildings. Salaries in London up to £1,055 p.a. for men and £1,008 p.a. for women. Somewhat lower in provinces. Starting pay dependent on age, qualifications and experience. Long-term possibilities with promotion and pensionable prospects. Five-day week, three weeks three days leave a year. Liability for overseas service (for men). Normally natural born British subjects. Write stating age, qualifications, employment details, including type of work done, to any Employment Exchange, quoting Order No. Borough 250. [0844]

#### County Borough of Blackburn

##### New Technical College

APPOINTMENT OF CLERK OF WORKS  
APPLICATIONS are invited for this appointment at a salary of £825 x £25—£875 per annum. Applicants should be practical tradesmen, with at least 10 years' supervisory experience of all trades on substantial contracts with particular reference to multi-storey reinforced concrete structures, with piled foundations. Successful applicants will be considered for superannuation subject to a medical examination. Applications stating age, experience and qualifications, with copies of recent testimonials to be lodged with the Chief Education Officer, Education Offices, Library Street, Blackburn, within the next ten days. FRANK SQUIRES,  
Town Clerk. [5111]

#### London County Council

##### Architect's Department

VACANCIES for Architectural Assistants, starting salary up to £860. Full and interesting programme of houses, flats, schools and general buildings.

Application form and particulars from The Architect to the Council, County Hall, S.E.1. quoting AR/EK/14/59. (256) [0166]

#### Huntingdonshire

##### County Architect's Department

##### SENIOR ARCHITECTURAL ASSISTANT

APPLICATIONS are invited for the above appointment at a salary in accordance with APT Grade V (£1,175/£1,325 per annum). (This salary may be affected by N.J.C. for Local Authorities Administrative, etc. Services Circular No. 145.)

Candidates should be Associate Members of the Royal Institution of British Architects or hold equivalent qualifications and have had considerable experience in the design of schools, police, and other county buildings.

Further details and application forms may be obtained from the County Architect, County Buildings, Huntingdon. Completed application forms should be returned to the undersigned by Friday, May 22, 1959.

A. C. AYLRARD,

Clerk of the County Council.

County Buildings,  
Huntingdon. [5113]

#### City of Belfast

APPLICATIONS are invited for the following positions in the Education Architect's Department: Architect, Class I

Applicants must be registered and qualified by examination and should be capable of supervising architectural staff. Preference given to those with experience in modern school designing and construction.

Salary: £970 x £40—£1,250 per annum.

Technical Assistant, Class I (Architectural)

Applicants should be experienced Architectural Assistants, capable of carrying out the drawings, specifications and supervision necessary for alterations to existing buildings and new minor works.

Applications will only be considered from persons who, although not possessing a recognized architectural qualification, can show that they have reached a high standard of architectural and constructional ability and with a special aptitude for this type of work.

Salary: £610 x £25 (2) x £30 x £25 x £30 x £25 (3)—£820 x £20—£840.

Commencing salary according to ability and experience. Superannuation contributions of approximately 6 per cent of remuneration payable. Reciprocal pension arrangements exist between the Corporation and certain Public Authorities.

Application forms, etc., obtainable from Education Offices, 40 Academy Street. Completed applications must reach the undersigned by Thursday, May 14, 1959.

JOHN DUNLOP,

Town Clerk.

City Hall,  
Belfast, P.O. Box 234. [5105]  
April 22, 1959.

#### Somerset County Council

##### Architect's Department

APPLICATIONS are invited for the following appointments on the established staff of the department, viz:

Senior Assistant Quantity Surveyor, APT IV (£1,065/£1,220) (subject to adoption by County Council).

Applicants must be Associate Members of the Royal Institution of Chartered Surveyors and have had experience in the preparation of Bills of Quantities and measuring for interim payments and adjustment of final accounts.

Junior Quantity Surveyor, APT I (£610/£765) (subject to adoption by County Council).

Applicants must have passed the Intermediate Examination of the Royal Institution of Chartered Surveyors and to have had several years' experience in an approved office.

Appointments are subject to N.J.C. Conditions of Service and to the Local Government Superannuation Acts, 1937 and 1953. Successful applicants will be required satisfactorily to pass a medical examination.

Applications giving details of age, present and previous appointments, training and experience, and containing the names and addresses of two technical referees should be submitted to the undersigned on or before Monday, May 11, 1959.

R. O. HARRIS, F.R.I.B.A.,  
County Architect.

Park Street,  
Taunton, [5112]  
April 23, 1959.

**APPOINTMENTS (cont)**

**City of Sheffield Education Committee**  
College of Technology  
Department of Building

APPLICATIONS are invited for the following additional posts, which result from the development of full-time and sandwich courses in Building, Civil Engineering and Quantity Surveying:

(a) **Lecturer** in Municipal Engineering and/or Land Surveying to be responsible for organization and teaching of surveying in building and civil engineering sandwich courses and the full-time course in quantity surveying. Candidates should hold appropriate professional qualifications, with suitable industrial experience.

(b) **Lecturer** in Mathematics to be responsible for organization and teaching of mathematics within the Department, particularly in civil engineering and building sandwich courses and other professional courses. Candidates should hold graduate or equivalent qualifications, with suitable teaching experience.

(c) **Lecturer** in Building Science and Materials to be responsible for organization and teaching of building science in the building sandwich course, the full-time courses in quantity surveying, and National Certificate courses. Candidates should hold suitable qualifications, with industrial and/or teaching experience.

Salary scale for above posts: £1,200 x £30—£1,350 per annum, plus 5 per cent.

Duties to commence on September 1, 1959. Application forms, obtainable with further particulars from the undersigned (s.a.c.) at P.O. Box 67, Leopold Street, Sheffield, 1, should be returned within 14 days of the appearance of this advertisement.

T. H. TUNN,  
Director of Education.  
[5104]

**Borough of Oldbury**

**Borough Surveyor's Department**  
APPLICATIONS are invited for the appointment of an Architectural Assistant in the architectural section of the above department in Grade APT I. Scale of salaries (£575/£725 per annum).

The appointment offers, to a competent draughtsman experienced in the preparation of working and detail drawings, an excellent opportunity of being engaged on a wide range of architectural projects.

The appointment will be superannuable subject to the National Scheme of Conditions of Service and to the selected candidate passing a medical examination.

Applications, giving particulars of age, qualifications, experience and the names of two referees, should be delivered to the undersigned not later than May 6, 1959.

KENNETH PEARCE,  
Town Clerk.

Municipal Buildings,  
Oldbury.  
April 21, 1959. [5097]

**Kent County Council**

REQUIRES an Architectural Assistant in the headquarters of the Planning Department at Maidstone. Salary within Special Grade (£750/£1,030 per annum); likely to be increased shortly as a result of National Award. Commencing salary according to qualifications and experience.

Candidates should be Associates of the Royal Institute of British Architects or hold an equivalent qualification. National Scheme of Conditions of Service applies and registered disabled persons will be considered.

Applications, with names of two referees, to County Planning Officer, County Hall, Maidstone, by May 20, 1959. [5107]

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APPLICATIONS are invited for the appointment of a temporary Clerk of Works (Building and Structural), in connection with the construction of a new (600 bed; approximate contract value £3,500,000) General Hospital at Huddersfield. Salary £1,000 per annum.

This project will be carried out in consecutive phases under the direction of the Regional Architect, P. B. Nash, A.R.I.B.A., and Messrs. Pite, Son and Fairweather. Preliminary contracts for the formation of the perimeter road and services ring mains and for the work of bulk excavation have been completed. The main building contract is scheduled to start in July/August, 1959, and to continue thereafter for a period of approximately six years.

Applicants must possess a thorough knowledge of all aspects of the building trade and must have had extensive experience as Clerks of Works on multi-storey reinforced concrete framed buildings. Membership of the Institute of Clerks of Works or the possession of the Clerks of Works Diploma of the Association of Building Technicians an advantage.

Applications, stating age, qualifications, previous experience, together with the names of two Architects to whom reference may be made, to the Secretary, Park Parade, Harrogate, not later than May 16, 1959. [5115]

**County Borough of Bury**

APPLICATIONS invited for position of Architectural Assistant, Special Grade (£750/£1,030). Commencing salary according to qualifications and experience.

Applications, stating age, details of training, qualifications, present and previous appointments and experience, together with names and addresses of two referees, must reach me by May 18, 1959. EDWARD S. SMITH, Town Clerk.

Town Hall,  
Bury. [5100]

**TENDERS****Abercrombie Urban District Council**

THE Council invites tenders for the construction of four shops, with four flats above, i.e., two blocks of two, at Pant Housing Estate, Newbridge.

Plans and specifications, etc., may be obtained from the Council's Engineer at the Council Offices, Abercrombie, upon payment of deposit of £3 3s, returnable on receipt of bona fide tender not subsequently withdrawn.

Tenders, in plain sealed envelope bearing no name indicating the tender ER and endorsed "Shops at Pant," must be delivered to the undersigned by 12 noon on Tuesday, May 26, 1959.

The Council does not bind itself to accept the lowest or any tender.

F. N. V. MEREDITH,  
Clerk of the Council,  
Council Offices,  
Abercrombie,  
Mon. [5118]

**County Borough of Brighton**

**FIXED PRICE TENDERS** are invited for:

Alterations and additions to convert "Elm Cottage," Warren Farm, into home for 30 aged and infirm women.

Bills of Quantities and Form of Tender may be obtained from the Borough Surveyor, Engineer and Planning Officer, 26/30 King's Road, Brighton, on or after Monday, May 11, 1959, on receipt of a returnable deposit of £2 2s. Drawings may be inspected upon application at the Borough Surveyor's office. Tenders are to be delivered to the Town Clerk in the plain sealed envelope provided, not bearing any name or mark indicating the tender, not later than 10 a.m. on Monday, June 1, 1959.

W. O. DODD,  
Town Clerk.

Town Hall,  
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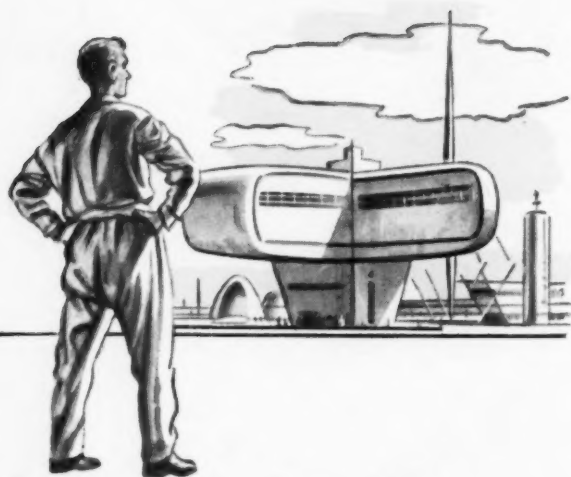
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